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AVCTORIS·DAMNATI

CAROLI CLVSII ATREBATIS,

Aulæ Cæſareæ quondam Familiaris,

EXOTICORVM
LIBRI DECEM:

Quibus Animalium, Plantarum, Aromatum, aliorumque peregrinorum Fructuum hiſtoriæ deſcribuntur:

54711

ITEM

PETRI BELLONII OBSERVATIONES,

eodem Carolo Cluſio interprete.

Permituntur eius opera cum nota.

Series totius operis poſt Præfationem indicabitur.

Ex Officinâ Plantinianâ RAPHELENGII, 1605.



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Ex libris John Forbes Royle.

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Viro fama & meritis eximio

CAROLO CLVSIO ATREBATENSI.

QVIS *furor ignotos adigit penetrare receſſus?*
Perq́ immenſa maris ſpatia haud ſine crimine gẽtes
Indagare nouas, belloq́ agitare quietas?
Regnandi rabies, & [illegible]um furiata cupido,
Quę trucibus ſtimulant mortalia pectora curis,
Nil intentatum ſceleris liquere nefandi.
Num ſatius patrios foret inſediſſe penates,
Nataliq́ ſolo placidam fouiſſe quietem,
Quàm genus humanum fœdis vexare ruinis?
Quod ſi terrarum longos inuiſere tractus
Geſtit amor, quando ætherio de ſemine creta
Stare loco mens noſtra nequit, motuq́ valeſcit
Acrior, & rapidos orbes imitatur Olympi:
Poſſumus exemplo multum experientis Ulyſſei
Diuerſos luſtrare locos, atque extera regna,
Scilicet ut varios hominum cognoſcere mores
Cura ſit, aut rerum naturę euoluere cauſas.
Hinc ſenſim occulto veluti viget arbor ab æuo
Naſcitur illa hominum vitę prudentia rectrix,
Munere quo nullum cęleſtia numina maius
Contulerunt terris. prudentia temperat vrbes,
Conſiliisq́ regit populos, vt corpore regnat
Spiritus, & ſupero quos ſemine traximus hauſtus:
Hac fine ô medicę decus & lux inclyta gentis
Orbe ſitas alio peragraſti ſedulus oras,
Ne quid inexpertum tua cura relinqueret vſquam,
Vnde venire queat non illaudata voluptas
Mentibus ingenuis, aut ægris dulce leuamen
Corporibus. fœlix operum, qui dulcia miſcens
Utilibus punctum omne refers, dum diuite cenſu
Fœcundas depromis opes telluris amicę,
Quas effundit humi cultu domefacta benigno;
Non quas interiore ſinu ſecreta recondit
Ut vitiis hominum crudelia ſubtrahat arma.
Sed quis auaritiam lateat ſpecus? horrida nautæ
Per freta præcipitant animas in aperta pericla,

Ne deſint miſeris alimenta perennia morbis.
Nec ſatis hoc, terræ rimatur operta profanum
Iapeti genus, & manes deſcendit ad imos
Viuens atque videns, vt ſuppetat vnde perire
Noctes atque dies lento cruciamine poſſit.
At tibi magnanimum potior ſententia pectus
Imbuit, ac mentem generoſo erexit amore,
Scrutari ingenio naturæ arcana potentis,
Æternas leges, adſcriptaq́; fœdera rebus,
Herbarum genus omne, & quæ natura creatis
Arboribus, varios habitus, genioſq́; locorum,
Diuiſaſq́; ſatis patrias, (non omnia tellus
Omnis alit,) fruticum formas, vireſq́; medendo
Scire cupido fuit, dubiæ nec fidere famæ,
Sed luſtrare oculis, nec parcere ſumptibus vllis.
Te duce multiplices volucrum cognoſcere vultus,
Inſolitaſq́; datur facies atque ora ferarum
Cernere, ſed nullo diſcrimine. monſtra natantum
Multa tuus ſpectanda labos proponit, at omnis
Terror abeſt, miſeris nec formidanda minantur
Naufragia infames ſcopuli, atque immania cete.
Nulli hic Sirenum cantus, nec honore carentum
Oſſibus albet humus, nec lamentabile viſu
Deſolata ſuis lugent cultoribus arua.
Securus ſecura licet legat æquora Lector.
Has inter curas tranſacta eſt optima vitæ
Pars tibi, dum pulcro vernabat flore iuuentus.
Nunc quoque par animus, quanquam inuidioſa ſenectus
Corporis infregit vires, minuitq́; vigorem,
Perſtat, idemq́; viget ſtudium, ſeruatq́; tenorem
Laudata ambitio ſæclis prodeſſe futuris,
Annorumq́; fugam victrici ſiſtere charta.
Macte ſenex animi, decet in ſtatione gradumq́;
Fungi morte ducem. tali fugit alite terras
Viuida vis animi, & cælum petit ignea virtus.

DOMINICVS BAVDIVS
Inſulanus.

DANIEL HEINSIVS

In Nobiliſsimi & C.V.

CAROLI CLVSII ATREBATIS

Exoticorum libros ſex.

NATVRÆ ludentis opus, ſuſpenſaq; mundi
Inter anhelantes diuerſo e carcere ventos
Machina; quam ſtellis ardentibus aureus ambit
Iupiter, & vaſtum Nereus molitur in orbem;
Cui tantum de te licuit? quiſve incola terræ
Has primum produxit opes? quæ cærula puppis,
Et ſolis radios, & iam non vltima Thules
Littora, vel nuper poſitas egreſſa columnas,
Ditibus his primum patriam mactauit opimis?
Scilicet in priſcas ſeries, occultaque rerum
Sæcula, vel notum nec adhuc mortalibus æuum
Voluimur: aut ſolis pudor eſt neſcire Batauis,
Quicquid mundus habet: vel quicquid filia Nerei
Ventorum dominis, alienis ſeruat in oris.
At Natura parens, immenſi conſcia mundi,
Sydereos inter tractus, atque æthera magnum,
Carole, te vaſtum quondam circumtulit orbem,
Euectum ingenti curru: [a] quem bellua Gandæ
Traxit, [b] & immanis Matutæ e littore ſerpens,
Centum orbes, centumque vndoſa volumina torquens
Arduus, & lentam tarde demiſſus in aluum.
Aſtabant toruæ facies, incognita cete
Oceano patrique, [c] & quo te nomine dicam
Ignauum pecus, [d] & viſu deformia Phocæ
Corpora, [e] vel tandem populis ſic cognitus Hiſtrix?
Hic fulgentis opes Orientis, & vltima ſeri
Dona recognoſcis populi, Famaq; ſuperbis
Poſtibus affigis, ſpectanda nepotibus olim,
Exuuias terræ ingentis, monumentaque mundi
Diuitis, & longum fama diffundis in æuum.
Accurrunt rapidæ puppes, victorque Batauus
Æquoris, ingentes Neptuno immittit habenas,

Stans alta in puppi, Boreæq; audacibus alis
Imperat, & longas a tergo diuidit vndas.
Nec viſas populatur opes, miracula rerum,
[a] Harundo Indica, XXVI.
Herbasq; plantasque, [a] & quæ ſe tollit Harundo,
Æmula malorum ſpatiis, aut arboris altæ.
Tranſcribitque tibi, nec ſe cognoſcit in illis.
[b] Coruus marinus. [c] Pauo marinus. [d] Stella marina. [e] Quercus marina.
Æquora viderunt alios emergere [b] Coruos,
[c] Et Iunonis auem: [d] Stellasque in littore nauta
Horruit, [e] & Quercum medijs inuenit in vndis.
Salue magne pater, quem non rationis inertem
Pallidus obſcuro Phlegeton damnabit in antro,
Infamíſque Acheron, ignauaque ianua lethi:
Sed ſublimis honos, & ſolui neſcia virtus,
Per varias populorum oras & mœnia raptum,
Indigetem magno tandem donabit Olympo.
Miratur rerum facies, ſtupet obuia turba
Europæq; Aſiæq;, & dignos addit honores.
Qualis ab Auroræ populis, & diuitis Hermi,
Indorum ſpoliis, & capto ſquallidus auro,
Liber ouans, curru ardentem conſcendit Olympum,
Antiquasque Deûm ſedes; Berecynthia mater
Aſtitit, & centum ſummiſit ad oſcula turres;
Frondoſo occurrens gremio: dextramq; tetendit
Iupiter, & vaſtum tonitru perterruit orbem.
Scilicet, & quis me, ſuperi, dum pectora ſanguis
Pulſat adhuc, ardorque ingens, atque indolis altæ
Conſcia mens, nullo curarum obſeſſa tumultu,
Tabropanes inter ſaltus, aut littus Iauæ
Siſtat, & occultos Naturæ admittat in auſus.
Non ego ſecurus metuam quodcunque pericli eſt,
Ingentem Batauo de littore ſoluere puppim,
Votaque Neptuno faciam, magnoque parenti,
Nymboſasque hyemes inter, ventosque furentes,
Plurima luſtrato referam tibi munera mundo,
Pars operis nonnulla tui. Sic Orphea quondam
Turbidus in cœtu ſociorum aſpexit Iaſon,
Carminis intentum numeris, aut vela legentem.

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ab elephantis expetita, idcirco in illorum pabulum cedere ſolere: fructus eſſe extremi pollicis articuli magnitudine, colore foris & intus ſanguineo, graniſque plenos uti vulgares ficus, dulces quidem & edules, verùm minus grati ſaporis quàm illæ: naſci autem inter folia quemadmodum vulgares ficus, hoc eſt in novellis ramis, quâ parte illis inhærent folia. Provenire autem in inſula Goa, lociſque vicinis.

Hvivs arboris iconem, quàm concinnè fieri potuit, ex Fabricij narratione, accedente etiam ipſius judicio, adumbrari juſſimus, eamque in illorum qui hoc ſtudio delectantur gratiam, hîc ſubjicimus.



Ceterum diſpiciendum eſt, an hæc arbor veteribus fuerit cognita, ejúſve hiſtoria litterarum monumentis mandata; quandoquidem illam Indiæ partem, Alexandri Macedonis victoriæ Europæis hominibus etiam aperuerunt.

Arbores Indicæ vaſtæ.

Q. Cvrtivs lib. ix. Hiſtoriæ rerum ab Alexandro geſtarum, refert, Alexandrum, Poro rege, & Hydaſpe amne ſuperato, ad Indiæ interiora proceſſiſſe: ſilvas autem fuiſſe prope in immenſum ſpatium diffuſas, proceriſque & in eximiam altitudinem editis arboribus umbroſas: pleroſque ramos inſtar ingentium ſtipitum flexos in humum, rurſus quà ſe curvaverant erigi, adeo ut ſpecies eſſet non rami reſurgentis, ſed arboris ex ſua radice generatæ.

Ficus Indica Plinij.

Plinivs verò lib. xii. Naturalis Hiſtoriæ cap. v. de Indicis arboribus agens, hæc ſcribit:

Ficus ibi exilia poma habet. Ipſa ſe ſemper ſerens, vaſtis diffunditur ramis: quorum imi adeo in terram incurvantur, ut annuo ſpatio infigantur, novámque propaginem faciant, circa parentem, in orbem quodam opere topiario. Intra ſepem eam æſtivant paſtores, opacam pariter & munitam vallo arboris, decorâ ſpecie ſubter intuenti, procúlve fornicato ambitu. Superiores rami in excelſum emicant ſilvoſa multitudine, vaſto matris corpore, ut ſexaginta pedes pleræque orbe colligant, umbrâ verò, bina ſtadia operiant. Foliorum latitudo peltæ Macedonicæ [*hanc Xenophon lib. v. de Cyri expeditione, hederæ folio comparat*] effigiem habet: eâ causâ fructum tegens, creſcere prohibet: raruſque eſt, nec fabæ magnitudinem excedens: ſed per folia ſolibus coctus prædulci ſapore, dignus miraculo arboris: gignitur circa Aceſinem maximè amnem.

Meminit & lib. vii. cap. ii. Hæc facit ubertas ſoli, temperies cæli, aquarum abundantia (ſi libeat credere) ut ſub una ficu turmæ condantur equitum.

Strabo item Geograph. lib. v. ſimilem arborem deſcribit, tametſi nullo nomine inſigniat, his verbis:

Arbor Indica admirabilis Strabonis.

India multas quidem admirabiles arbores fert: è quibus eſt, cujus rami ad terram propendent, foliis non minoribus clypeo. Oneſicritus curioſius ea perſequens quæ ſunt in Muſicana terra, Indiæ auſtraliſſima, refert arbores quaſdam ingentes eſſe, quarum rami cùm ad duodenos cubitos creverint, reliquum incrementum pronum faciant, deflexi quouſque terram contingant, deinde terram ſubeant, ac radices agant veluti traduces, mox rurſus in truncum exeant; à quo poſtquam aucti fuerint, eodem modo flectantur, & aliam propaginem efficiant, rurſumque aliam: & ſic deinceps, ut ab una arbore longum umbraculum fiat, tabernaculo multis columnis nitenti ſimile.

Ex quibus deſcriptionibus facile cuivis colligere licet, eam arborem, de qua nobis ſermo inſtitutus, illos Auctores intelligere voluiſſe.

Sed omnium diligentiſſimè Theophraſtus, Alexandri coætaneus, qui haud dubiè eorum narrationes magnâ curâ excepit, qui ſub Alexandro in Indicâ expeditione militarunt.

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+ !$!$$ F .)! * # % .f3' , ' $" + ," '
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% ! , . '% +' , 0 ')!.! #'%#(+ ,'LQ" ' .\'
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+ ,(Q" * (+ * !+" * 'V' .. 'Q" $' * F'
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H B"(. 0) ! % ([,! Q"]% * . % "+" R R$) ' * .(' &." * " * * ' ()) + GG'
&.6 9% ^')'0 + ,(" '(+'&(. * (* 9# $" * ' 'F , (* '0' ' (F (' !,). ! '#]% * ' ($'Q"G
[illegible] % $R".("+":'% +'%Q"(* ('(+'# +)"."* ')!$0 %(' .('F(, '$ %'%! ' ' &(. *]9# $ '
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Q"($+!Q" () * ' ($$+' * .. % * !'Q" $R $ % * !'$!$(R % * !'% # * ! ' ' . * 'Q" $+(* '
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'#! ! 1" R $ .. % "+" Q" $ " + %) ,) '#!%) O' ' ($$! * ..)% * !'Q" $:G '
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.!$RO' * (! ' ")'Q" '1"R.($+ * ' $" * ' . " * 'O + * ') !) * '(+F") ') $ * ') (%9'
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(, ') ' * !'O " '# !." * ' $+ $," ' ' .. %Q" 'Q" !+(* * !+!' 2% ' '.()"$(* 'F(,)$G'
," '# '.!$R "+ $ * C' Q"(* ".' '(" * '# !.!'# ! ' * ' 'L" %" * 'O R '#!$$ F .'O + 9'
, ($ " '$) ') !.! ' #. $+ $ ' '%#(+) " .' (Q" '$"). " * ') !F $) , (C$(* ') ! * * ! (' '
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)O #! , ! "$+ (%) (' :]'! '
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"$) (" * ' ! " 1 ' ($%O %" * 1" ' (* , G'
" ') !) '% O ') ! !'O(.+ '+" !' +" '%#(9G
+) ' ' $ R !')Q.# '% +' (+) !). R($," '
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+"+ '%".) ' $% R$!' ' " ' %" * $ " * '
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.)) , (C' Q" (' (* $'%! * (Q"+O ' * # (9O'
* * !' % '# '+ " * ' * '.(' Q" ('% "9'
O" * 'Q" ' * F '"$) " ' (' '# !# 'O $"@G'
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F" * 'F")') (* '$!$' + %% * . F'$($)F'
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),($ 'VC('%"*" !'(+' *"*'# !R1+'*($%%)')!#%#)),($1" 1'$!$('#)+)".!'(+'**9
(*'#(*C'Q"!+' $'+"#,"'(. '#,. W('$!$'>)") ('(+)!'(+)') * ')!F1 9
,($ @O' #%"*')! "*'%O'$ R"* $"*'%".R'+" ('('+% $+"*'W+ " ' C' O
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Phaſeolus Nigritarum.

CAP. XI.

Phaſeolus I. Nigritarum. Ex Guineâ delatus fuerat Februario menſe anno nonageſimo octavo ſupra milleſimum & quingenteſimum peregrinus hic phaſeolus, cujus lobus, ſex, interdum ſeptem, nonnumquam etiam octo, ut mihi referebant, uncias longus, pænè binas latus, planus, ſinuoſis oris, cortice non valde craſſo præditus, externâ parte nigro, valdè rugoſo, tumenteque quâ parte phaſeoli incluſi, internâ cineraceo, cuſpide longâ & mucronatâ, dorſo ſatis elato, in quo terni aut plures fructus, quibuſdam veluti cellulis diſtincti (ut in reliquis lobis cartilagineis vel membranaceis magna ex parte contingit) orbicularis ferè in plano formæ, uncialis magnitudinis, coloris fuſci, & tamquam anulo ſive circulo totum pænè ambiente. Illius autem iconem in tabella expreſſam hîc ſubiicio.



CETERVM hos lobos mihi communicabat ornatiſſimus vir Chriſtianus Porretus pharmacopœus Leydanus diligentiſſimus, qui à nautis redemerat. Plures autem hujuſmodi phaſeolos non ſemel, ſed aliquoties accipere memini, & anno milleſimo quingenteſimo nonageſimo ſeptimo, & aliquot ſequentibus accipiebam, eoſque non unius coloris, & omnino nudos, nulloque lobo incluſos. Quin & non valdè diſſimiles anno à Chriſti nativitate milleſimo quingenteſimo ſexageſimoquarto Vlyſippone nanciſcebar recenter ex Pernambuco Americæ allatos, Macouna. ſpadicei tamen coloris illos, & *Macouna* appellatione inſignitos, è quibus anno inſequente in Belgicam redux, aliquot menſe Aprili terræ committebam; quorum unus dumtaxat germinabat, & in binorum cubitorum altitudinem excreſcebat: ſed quum ſeriùs germinaſſet, ad frugem pervenire non potuit, & præmatura hiems corrupit, ante quàm ullum floris etiam rudimentum dare poſſet. Ejus porrò, ut natus erat, iconem in tabella expreſſam olim dabamus ſcholio ad caput De faba purgatrice, libro Simplicium medicamentorum ex Occidentali India delatorum edito ab eruditiſſimo viro Nicolao Monardes Hiſpalenſi medico, quem tum Latio donabamus. An verò lobo huic ſimili incluſi fuiſſent, me latet, quoniam omnes nudos accipiebam: ab iis tamen qui attulerant, intelligebam prægrandibus ſiliquis fuiſſe obductos.

Phaſeolus II. Nigritarum. ALTERVM porrò lobum ex Guinea etiam allatum, circiter ſeptem uncias longum, ſeſcunciam latum redimebam anno nonageſimo quinto ſupra milleſimum & quingenteſimum: durâ cute tectus erat, coloris externâ parte ex fuſco cineracei (ejus dorſum tribus nervis ſecundum longitudinem inſignitum, ut in pleriſque ſimilibus lobis) internè veluti membranâ ſuffultus, aliquot phaſeolos continens non valdè magnos, pro lobi amplitudine, nigros, longo hilo ſiliquæ ſive lobo inhærentes.

Accipiebam autem illo breviorem eodem anno ab amplo viro Simone Parduyn conſule Medioburgenſi in Walachria Zelandiæ. Et biennio poſt his non diſſimiles à nautis Batavis ex Madagaſcar inſula allatos, Amſtelredami conſpiciebam.

Phaſeol. III. Nigritarum. TERTIVM etiam ex Guinea advectum, Secundo non diſſimilem, octo uncias cum ſemiſſe longum, ſed nervis ſecundum longitudinem in dorſo excurrentibus magis eminentibus, internâ autem parte nullâ membranâ (niſi attrita fuiſſet) præditum, cineracei ex fuſco coloris, phaſeolos continentem ſuperioribus majores, ſpadicei coloris, nec hilo adeò longo præditos, ut illi, quos honeſtus vir Petrus Garetus, Iacobi frater, Amſtelredamo ad me mittebat.

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+"F ' (##)..(' # "$ " '$Q" 'Q" '+(*' (O)".''(+ !)' R" ' " ' ' * '#!..) '( )".'
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".." #! ,9 % ! " * Q"!)! * * * ! (O "-.C! " * F"1" (O)".(C)($ " %"(O V
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$ "$) ((.!$R" * #%" *)! #" , $!
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& $$(C % O $ #." * G ! " * (O)! #"
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99 % F+ $ $ R ! # * ($ $ $ O! "

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(+1"O $ Q" (F($)(O * $!$ L O!.") * $) ( ) (!.. #!. (, ! C) " ($
(* , "Q" $Q" "$) (" * ! (% "+ $ * %"#) (,($ W , %Q")!) ,") " Q"(*
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* + " Q" . Q" .!$R ! ," ( )".)!$%(,($! "$! ' ! , $ C! * a
$ " * "$R" O(.+ * (R$, $(#G$)"$) (.!$R) (%. +" V)# $+C 1")(#")' 9
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") . !$!)". #G$ % * .) 1Q",) $R ,($ $ R # . Q" * (+ * !+" * * ("
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,1) " C# + ʿ (*)$ʿ, %".)! ʿ$!$ʿF(, %)+ʿ , ʿ+R ʿ# (+) _ʿ($ ʿ+ ' $ " ʿ% $ ʿ
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! * F! !ʿLQ" $ʿ)" *ʿ #%!ʿ ! *)ʿ $R %.") (* ʿ " ʿ +O *ʿ)!F #) \ʿ (, !9
)$ F" * ($ ʿ% * !) (.. ")_$ *ʿ (CQ"($ *ʿ # ! O ʿ +,$ ".($ʿO + * ʿVʿ 1")! 9
* ʿ%",.(" * ʿ(,ʿF"1" ʿ(O ʿ ! * ʿ +ʿ(%. $ ʿ# + , ʿVʿ"$R" ," C)F *ʿ. !Fʿ +9
% !ʿ(F ! " * ʿ% +ʿ!,. Q" ʿ%)ʿ)!$O $ ʿ(O % ʿ) + " *ʿ# + ," ʿ !)"$ʿQ" ," ʿ#"9
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.. " ʿ(O ʿ(. Q"! ʿ!O(ʿ$ F .! * $" ʿ).((Cʿ) ʿ $(ʿ (" ʿQ"((!+ *ʿ($!ʿ * % .)9
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$ () !ʿ)!.! ʿVʿ# # " ʿ.(.) *ʿ % , $ ʿQ"(%ʿ ",)" ʿL(" (ʿ + (Bʿ#%(C+ G
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)" *ʿ ..!ʿ * O$ "+ $ ʿ%! * ' ʿ ʿ)!.! ʿQ" '+(*ʿO !ʿ * (R ʿ! ,)".(((. Q_(ʿ * $! (ʿ
$!$$"..! " (ʿ (*ʿ+!.! ʿ+ ." ! Vʿ * $" ʿ . R($ ʿ
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"$ˁ)) ˁQ"$+) *ˁ* .. ("*ˁ+"* ('(ˁ)% ˁ$ˁ7 (!ˁ% ˁ(+A) #"*.ˁ "ˁ(.(ˁ(* $ˁ Oˁ*!*!A
$(O R(!$ ˁ#( )! ˁ#!%ˁ($$! ˁ%(LeC(ˁ(,ˁ 5..($+ ˁ$ˁ $%".(ˁ !."))(ˁ $+ $,").(%. ˁ I
& ()% +!%O)ˁ +* (.. !ˁ.()!,!ˁO($ˁ)[1"ˁO ,ˁ R(!ˁ%Oˁ) 9 +* (.. !ˁ
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% ˁ ˁ $ *ˁ ! (*ˁ $%".(*ˁ))" 1", ,(Vˁ R$(ˁ* .. ("*ˁ%Oˁ)")("*ˁ(*, "*ˁ
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2 &ˁ &ˁ "O .ˁ ! ˁ$"$)"#((*ˁL"ˁ($ ˁ+ ' *"\ˁ +ˁ %ˁ $%".(*ˁ WR$'((ˁ%! % ($ˁ!,ˁ
)!$%# 2eC(*ˁ $ˁ #%(ˁ1(*ˁ)!** $! ((*ˁ(O *ˁQ"(*ˁ)WR$"#ˁ %.ˁ ' % *(%. $
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$!* $ˁ $+ +) "$ ˁC R!ˁ(" *ˁ (ˁ(O ˁ $. ˁ (R ..($! ˁ$!$ˁ $)!**!+ ˁ+)ˁ#!%. ˁ
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ˁ7 ((ˁ(,ˁF ˁ)O".R((ˁQ"ˁ ..!ˁ($$!ˁ $ˁ (R+.($)!ˁ% !ˁ(.Q"(*+ "ˁF'^ ($ ˁ)ˁ. ˁ
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ˁR)$)ˁ!,. O(,($ ˁ +) * ˁQ"("! +) *ˁ) ($ ˁ% + 9
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$) V)!$%) .ˢ$(*ˢ !% "*ˢ+ $ ("*ˢ$!$ˢ (ˢC ! "*ˢ)! #" ˢ+ $% ˢ# $$ ˢ +"*ˢ
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)!$%# +(* ˢ(+ !Q" ˢ$)ˢ(.("*ˢ"%" *ˢF(,)(+ˢO! ($+" * $)ˢ# +"*ˢ(+ˢ $) + $+" * Cˢ
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G# (ˁ .(" ˁ B" " *ˁO ,ˁ(#"+ˁ$ * $ *ˁ ..! " *ˁQ" ˁ+)ˁ O ," ˁ% #% "$ˁLQ"! " *ˁ
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)' *(*')("+(*'"%Q" '$!O *'"$) "$.!$R)"+$) F$!$ %"# ( )'#("..!' (* $
) (%. ! 'O + ,(" ')! #! Q"(*' B . R"1 + .(C + $%. ' V')!$% ' +(' (#)$$ '
! + '$ R (*' $+! %!'Q"(*' $# !$('#('(.("* 'Q"' % ''_$) (.!$R' O '(+')(11
+(*'".Q" # $R ,($:$ R '% * . i) ' ($ '# $$')("(' , O GC O ' , $('") (.!$'
R' ' Q"'' $"* !'. # *+) *'' # +! 'V'O $ '"%Q" '(+')("+(*'# $$' 'V' .."'Q"''
%",)("+((.,' ('C)!.."* 'Q"!+'.(', O ')) (. "*' $ R # $$ ' (' + "*'9)(a
#" '$!$'O(.+)' * (R$"* ' 1" 'O '' !% !' $" '$ R 'O . Q"('#(')(# '(' !% !' ".Q" '
(+'!)) #" '%"# ('V' $% ('!)".# '(.,(')(' ('* $'Q"'' $% $''%O '%"# $'' !% '#('# !' 9
(') $) () ')!.! ' C !% "*'F(, ,('"$) (')"*'% * .% '.!$R"* Q"!+(* * !+!'(Q" 9
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*") !$ *$!$$ F .(+"$)"* + % $,("'%"# $(' $ 0. Q"($ ". *'% *"* 'Q"!'(+ " '
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%.(O(*' *") !$((*'@&Q"(%' ($R".(*' $% ('%!. # "*')W#) C' 1" '# + ' $ ' * '
'%)! #!)'% '#1($ ' ," '+"* ('('+ R '* * , ($('% *".')!$$ ' ')!$% ($ '% $ '
)(.)(')!.! ' ''%.(O!' ", .) $:'"$R" ," ' $ R C $ # '+ R " ' $" !Q" # +)' '
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%(' $(' ($% '$"$)"#('#!% :. +Q""*' % '% * . '($ '%" #)' !,.) O('' (+'% 9
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O %% $) ('.("*'C #% " ')(# '@& !% $%! G
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I !)%)"*' (+ ,'*".(,("' ' " '# !' #)(#'
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) (1*' ($ $!$$"..'' "*'+"* ('(Q"'9
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$('")'%( ) . ") 1" ' * (R$)"+ $ 'V'%! $ '' . $) ' (R$!%)) '#! . . * ' (R$ "+ $ *'
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R$ %) (, ('V' , ("+'L) !'($' #%'$! ('%" C' (Q" '#." ('$!$'(++!
+# %'7 7 " B # &+ &' $'X '.+*'XX '& .# #(&' !+. (' . 1 !3+&' #3 .B'
+2 %1' ' +&' + " (&'# #. *+"'+ 'C+2 # %' &+5# 3 #(' . 1 %' .+* %'* &B." A'
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($'$!$' * F '%! . O$'# R $('Q" (*'Q" ''L"# ! ') (# ' 'F , ('+ R$(*'O' ._ * (G
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'# L (C$(*'O'L" !9
$!')(# ' (+' ' 9
* (*') ! . . ' #(* '
+!+ ($ (. *' , (, G'
, (' . !$R "+ $ * '
% O ' $, O *' "$) ('
(' . !$R(:') ! . . ' . (G
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!% " * L # ('"$ '
) (" *'1 !% "') " *'
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R "+ $ *' %"# (9

, (6' #%" * O !' Q% " *' +)+" * 3V' * $ * ') " O" *' $' +! + ($ (. *' * ") !$ *'
+ % $, ('Q" (' (" *'#(') (# '1"$R , (" '#(. * " *' (' . (" *' C) (# ') ! . . Q" '
!$('#(') " *' !% !'$ R ' ($ ') ! . ! '%"# $('O , 'V'R" " ') $ ( ) ') "1" ' (*') !G'
. ! * ( ) " . (9) (#")'L , ' !) " . ' (+ !% '%"# $'' #(' (+) *O' $+R$ " *' (%'# $$('
$O) # '$ $!$$, . ' %. ' (') % '' $% (' , (, , (C'$" . . (*' (" *' $R."O *'O' !G'
% !' # !# $+ $ * # %#) , (* L +'R" " 'V' $% * " *') ! . . " *' $' ($ $! *' #(*'
(.+ ' # ! * $" . ('V'# ! " , ($ (' 1"% * ! + ($ $! ''Q" (' $ * %%('# +" (' ! , % O('
#! (*
&) !$ (, (" '(" * 'Q" ' ($' * , ('($' 1" (O ') (#" ' L '#! . ') "1" ' * $!9
$ * %( ) . ! ($$ / !$%(.] + ' $+! (' "R"% $ ($ ' ! + $ ' * !$( )F" ') (#' ' ' ' . , '
6 ' 1" ' % ! ''Q" (*'+ ' $(" *' R$!'L) #%) "1" 'O , (') U %#($))O @5(+6 O O'
* !$ %)' ($!' ++ , (* ' O
3 ! 2'" ' & .) ($+ ' (!'$!$'* $! ' $+"% (' $' , !)' R$!'# (R " 'Q" (*' $(" O ! ") O , O
(%> ') (*' ! ,) (" (*' . ("'+ R$(' (, ' '' $' ! * $, " ' " , , " ' L))"$+" *' %."* $('% '
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Q" '+(* '+ L) ($'Q" ! " *' % $R". (" . * ($) ! O (."$ " Q" ! " *' !# ('# % (!'
"2"7 # (R " ' ' * $, " 'Q" , " # % '%"! '%! " ++ "$ ' +"+! $ * '' . . '+ %) ' '3
! &' (+'%." * $" *'%#(' ($ % "$ ' $'Q" , " ' * " . ('# % (! ('L) (#, (' * + (' '
#('(Q" ('#. $(' , (, $ C'Q+ , " ' $'! , *'+ .#!% '% $R" . 'L $R" . ! ') ! O! '(+1"+) ($ '
! '+ $+ ,'%" ,'(. ' . !$R!'%"$) " . !'(. . R($! " * Q"OR" G " '% O ' $R."O *' (. !'%"$) "%!'
(+% $R $ '$ '# .) ') (# ! 'W! ('Q" ($ ' $'(Q" (*'# !) "$ '(+'# % ') (#)$+ *:
Q" !+'(+ , '(O + ' ' Q" "$ " ' " ' (+ * (!$ *'#((C $(*' * (R$(')) . (' % % ' * - 9
R $) (Q" %" , (Q" ' ($.# F' $ ' +!$)R" " % O $R. O *'(' !% !' (+# +" '
" .Q" * # .)$ 'Q" ($ '+ $+)' * R $ '% * .) . ((+%) (#F(' * ($ ') (#1!%Q"
%)

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1#%) ˁ $(Q"(*ˁLQ"(*ˁ(+ˁ#%) ˁO O!ˁ)!$% O($+" $ˁ $ˁ%)(#F ˁ)!$ $ ˁ+ ' $ " \ˁ G
) "$.)!(+ˁ#%)(!$ *ˁ O $ ˁ $ *.ˁ ') !ˁQ"("! ˁF! (*ˁL#(!ˁ# 9
% O ($ˁ ($)(ˁ+ ')) (ˁ"ˁ$"..""ˁ(. ˁ% ˁ $\#)+ * $! +!$)ˁ(Q"(* Q"'ˁ $ˁ%)(#F O
#.) ," ˁ #. O $ C#!%)(ˁL,." !ˁO $)".! ˁQ"!ˁR" " ˁ(+% +"*ˁ%" (ˁ$ ˁ#%) ˁ $ˁ(.9
O" (ˁ ($%*)$ ˁ+ * "$ " ˁ" ˁ#L) ˁO $)$ " Q" ,_ ˁ #% * O).)($ " .ˁ%"$ˁ $ $(ˁ
%(#().) ˁQ" (ˁ+ ˁ#L)(!$ *ˁ#()) ($ ˁ ˁ) ," ˁL,. " ˁ$!$ˁ+(" ˁ" ˁ(+ˁ#.)(!$ $ˁ
G ($!ˁ% ($ (.() ! ˁ , O !ˁ(. Q"($!ˁ *#! ˁ $ˁ(Q"(ˁO %(ˁ%"$ ˁ#.) ," ˁO .) $ ˁ
+ $",ˁ 'ˁ(Q"(ˁ (F"$ " ˁ $ˁ%"(ˁ)(O (ˁ ..(ˁ+! * "$ˁ ($ % "$ " ˁ !ˁQ"!9
Q" ˁ+ ˁ% "+ˁ ') " (ˁ # " ˁ ! ˁ .. ˁ* $% ," ˁQ" ," ˁ#% (!# (R $+(%9 (+ +ˁ
(" *ˁ(+ˁ% (. ˁ ') " (ˁ# !$ˁ%"$ˁ% ˁ)! O 1ˁ" ˁ ! !ˁ($$!ˁ $ˁ !ˁ# . O (ˁ) # $
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$ * $ % . ($" . , 'O + ˁ $ *(. ," ˁ)(#ˁ OˁF ˁO , C O ˁ5 O 4 $ˁ $+ (ˁ .(%)ˁ
()) #ˁ *(R$ "+ $ ˁ #.!ˁ*(1! *ˁ + ˁ! ˁ# *(R$! ˁVˁ.!$R ˁ)$," ˁ1 $R."O ˁ
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. , ' Oˁ %! (] / $ (. ˁV (" (. ˁ & &T (## ..(" ˁVˁ+ ., , " ˁ ($ˁO ,ˁ 23
$!) ! (."*ˁ %. ˁ) $% ! ˁQ" (ˁ ..(*ˁ% * . *ˁ . ˁ+) ˁ ˁQ"(*ˁ(. Q"($+!ˁ "' ..(:ˁ)!$9 2 ," !% ˁ#
%# ' $ (!. ˁ ˁ (.(ˁ (".(ˁ O".R(ˁ$! * $ ˁ %)ˁ C'$ ' &: "(## ..((*ˁ "1" ˁ !N).9F(P
%% R ˁ*O *! (ˁ (*$"*ˁ%# 2eC(" ˁ "' ..(Cˁ($ ˁ& $) # ˁ#(.("*ˁ "*ˁQ" + *ˁ $)
)% $!) ! (. #." (( ) $ () ˁ %. ˁ)!.! Q""*ˁ .. " ˁ)"1" ˁ / !$](. +ˁ $+!1(ˁ
* $!$ *%() ' #%(ˁ)! O (## ..(!$ $ R "*ˁ L ˁ+ ,)!$1 +" (*ˁ%() ˁ . 9
) (ˁQ"(. 5 %ˁ)"1" ˁ)!$)*ˁ+(*" ˁ# (])!._ˁ($! *ˁ%O ˁ%"# $(*ˁ#(*
2%!)*ˁ#! !ˁ$ ˁ# R (ˁ)!$%". ˁ ($O % . ($ˁQ"(*ˁ O +ˁ.!)(ˁ(* ˁ# !+"+("$ˁ
) (*ˁQ"(C / %$ " . , ˁ$ % ! ˁ+ ˁ ," +ˁ $!) # (.!ˁL) ,
"* (* $ " ˁ$R $" ˁ# !% (*ˁQ"!+ˁL $! ˁ* (ˁ!# $!ˁO(.+ ˁ $). $(ˁ" ˁ)(*ˁ
(O (ˁ)"1" ˁ% R" (*ˁ)(# ˁ 'F , *")! O"*ˁ ."*ˁ %. ˁ#" *ˁ)"1" ˁ* * "$ˁ (9
(Oˁ $ˁ%" ˁ7 (Q"(Gˁ$(O R(!$"*ˁ $ˁ (O(* (# !,($(*ˁO . "*((*ˁ ˁVˁ !."))(ˁ
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(## ..("$ ˁQ"!+ˁ)("+(*ˁF(, (ˁ, %")(*ˁ ($ˁ"ˁ("$ ˁ$ +"*ˁ '#.)($ Vˁ+ $",ˁ)
)!$ (F $ ˁL(! ()ˁ%!) # ˁ $% (C*(R$"*ˁ $ *ˁ.!$R"*Q" ˁ !% "*ˁ ($ˁ(O *ˁF(, ˁ
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," 1ˁVˁQ" *ˁ 1" ˁ(.(C '#($% ˁ! RW (C.!$R "+ $ *ˁ '#.).ˁ*(R$(ˁ(O + (ˁ#%) ˁ*(9
$! ˁF "$+ $ ˁ(##)..(! ˁ%"# (ˁ(Q"(*ˁ$!$$"$Q"(*ˁL L)ˁ(!.. $ ˁVˁO!.($ ˁ# 9
% Q" ˁ(Q" ˁ$!$ˁ *!+,ˁ#% "*ˁ ' $ (! "*ˁ $ % $(ˁQ"(ˁ$(" (C(,) ,($ ˁO $ˁ
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"*ˁ(" *ˁ)! O! "*ˁ+" (*ˁ %. ˁ)($ *ˁ ˁVC *(R$(ˁ)"*ˁ+%%)". (ˁ#)!Q" ˁ#!%. ˁ
)!*# ,($ ˁ O O
1"%$!+ˁ (*ˁ)! O! ˁ $ˁ+ % (ˁ. (ˁ$%".(ˁ)"ˁ (" 1ˁ$! $ˁ O+ ,($ (+ ,ˁ))"O
ˁ # %. ˁ" ˁ*($"ˁ# F $+ $ ˁ) (*ˁ%" ˁ$ + ˁ $% + $ ˁ G
ˁ +$($+" ˁ O +" ˁ)(# ˁ' ' ' ˁ%(ˁ "**(W .O !ˁ*(1! *ˁ %. ˁ+) ˁ % (.ˁ(O *1
Vˁ &) ˁ) '& & (## ..(ˁQ" (ˁ)("+(*ˁ $ˁ, $(ˁ#(ˁ+ O .(*ˁR %(Zˁ ˁ 3(3
)

ˁ $'

ˁ U_ˁ ˁ O

ˁ O ˁQ"(C+(*ˁ)(# (ˁO(.+ ˁ$R $ (ˁ $ˁL"!ˁ*". !ˁ%ˁF(, ˁL) , ,(ˁ + *& (9O
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O ! ˁ1"%(*ˁO *,! "*ˁ*(R$ "+ $ *C .(ˁ(" *ˁ+ # F $+ ,(*ˁ $ ˁL ˁ+ %) 9
>^%O!.!W O% 4*(ˁVˁ)(.O((C*(R$ "+ $ C !% ! "*ˁO ,ˁ.!$R "+ $ *ˁ#(C$ ˁ(Q"(. *
&ˁ ˁ!ˁ ˁ ˁ $ * ˁ)"1" ˁ)(.O((ˁ* $! ˁ ˁ!)".! " $ˁ)(O (ˁ$!$ˁ(+*!+ *ˁ(*#.(ˁ ! 4$ $9
!ˁ ($!ˁ !% (ˁ# ! % (ˁ)!.! ˁVC)1" ˁ.!$R "+!ˁ# +(. ()(.W((ˁ(+ˁ ' *"*ˁ G
*") !$ *ˁ.("+!ˁ(" *ˁ1"' (ˁ) ($ "*ˁ% ˁQ"("! ˁ"$) (" $ˁ ˁ 1" ˁ#(ˁ# !$(ˁ%O ˁ%"9
#) $(+ +(VˁO(.+ ˁ*") !$((%"# $(ˁO ,ˁ%O ˁ $% $(*(R)($((
% "+ˁO ,ˁ !% "*ˁ+", (,(ˁ($ 1" ˁ(O ˁ %. ˁ#!%. ˁ)"1" ˁ * * $ ˁ V% #F" O !%(ˁ
% ˁ (" (. V ! (. . , .O ˁ)(# ''ˁO BA3+24O (## ..((C %.* $L ˁ*(R$ "+ $ ˁ) ˁ
(Q ˁ ($ ˁ !,! ˁ"ˁ$!$ˁ *!+,ˁ!O<* ˁ% +ˁ (*ˁO "."*ˁ (#))ˁVˁO! (ˁ#!%% ˁ $ˁ 1
#B " .. " ˁQ"(*ˁ+ % , ˁ>!($$ ˁ !ˁ %)($" ˁ%",ˁ%$)*ˁ. ,ˁ ' ˁ7 % # !$ ˁ %)(C
F O ,1O ˁ %A ˁ(O ˁ %ˁ!*$ "*ˁ ("* ˁQ"(C $ˁ %)(ˁ # "$ " ((' *(R ")ˁ# !O ^ $9"4
)) !

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)) ! ˢ) (%. !)Q" ˢ# ()+ (ˢ !% !ˢ)!..!ˢV( ) " ," ((+) %",. . O!.("ˢ!)".! "*ˢ
())* %%"R (ˢ1))!$Z# O!(.)"1" ($$( )(+(O ˢ "#(($ˢ1() $ O.)!ˢ $.F+ˢ
"()ˢ (,%!.(% +ˢR R(*O!.(ˢ%!.)ˢ !$R(O(ˢ %($((ˢ#. Q" @)!$%# +(%"$ˢ
)(.O!ˢV ˢ+ #."*ˢ)(# (ˢ (*Q"(*ˢO"./)ˢ%" %.)$ˢ)(# ˢ# $$'ˢ $+ˢ)!.. R ˢ.) ˢ# ((
$ * !ˢ)$!ˢ# $$("*ˢ+ %."" "$ˢ#((($!,ˢ)("*$ˢ%"! ˢ$+! ˢO ."ˢ) $ ˢ$((: 9
\ "$ ",ˢ(ˢ%" ˢ#".. ˢ+")($" ˢ (+ $@"ˢ ,($$ ˢ !(% +ˢ(O ˢ. (ˢ$ F.ˢ(. "+ˢ %ˢQ" Oˢ
Q" .(ˢR $" ˢ G

_!$ ˢ 9 ˢ#! ˢ)"1" ˢ)(.O((ˢ*(1! VˢQ" $Q" ˢ"$) (ˢ(. (!)".! "*ˢ)(O (ˢO(.9
+ (*#.(ˢVˢ.!$R ˢ*(1! ˢQ"O*ˢ%"# ! ((.,"ˢ (ˢ)!.! O !% ˢ(" *ˢ.!$R "+!ˢ(,ˢ ˢ2
$O)"%# + ˢ(+ˢ) ($"*ˢ".Q" ˢ#("..!ˢ*(1! ˢQ"(*ˢ# ! ˢ.("+!ˢ1"' () ($"*ˢQ"(9
"! ˢ"$) ("*ˢ# !$(ˢ#(ˢ) (% ! ˢVˢ*(R ˢ .((ˢQ"(*ˢ $ˢ# ! ˢ%"# $(ˢO ˢ#("..,ˢ! 9
O ! ˢVˢ($R"% ! ˢ G

+%) , ,(ˢ(" *ˢQ" * ,((+* (, . ˢ .)ˢ !% "*ˢ# !# ˢ$% R$ *$ (R$ "G(
+$ * ˢ$)ˢ "+! *ˢO+% ˢQ"ˢ(.)"1" ˢ(O ˢ (.ˢ !% !G# ((+ 'ˢ* $!$ *ˢ%(O ˢ$%ˢ
Q" ˢ(, "ˢ ( )"*ˢ&(".ˢ"*ˢ $ "*ˢ+ ˢ% * .ˢ(O ˢ(R ˢ $ˢ $%".(ˢ (+(R(%)(ˢ+ OG
) # !$ ˢ 1"ˢO ,(ˢ 'ˢ (.)!ˢ ' *#.(;ˢ(+% ˢ. ," ˢVˢ ($(ˢ%() :Q" (O".R(ˢ
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1"%*!+)(#ˢ'''O. , ˢ

$3&ˢ 5$6 $ (($ˢ$)!.(ˢ) !ˢ($$ˢ *#! ˢ(+O!.(ˢ* (, . ˢ(O ˢR $" ˢ- ˢ(,ˢ#% ˢ(## ..(G
" $ˢ Q" .'ˢQ" + *ˢ% * . ˢ. +ˢ(+* ($+'ˢ*(R$ "+$ ˢ(+ !Q" ˢO(% ˢ)! # W ˢVˢ ($ ˢ
.!,! ˢ"ˢ . #F($ *ˢ"$R" ,"ˢ)! # ˢ(Q" ˢ$ˢ(. "*ˢ%",. O(ˢ#!% ˢ+ $+ˢ)(+) !ˢ
@% $(ˢ"ˢ*! "ˢ)(* ˢO %)("9 B"ˢ(" *ˢ 1+ ($ˢ1"ˢ(.(ˢ ˢ#($.(ˢ(,ˢ"$"ˢ ' 9
* (ˢ(+ˢ(. (*ˢL +) *ˢ#(""* L. +) ,($ ("*Q" ˢ# $$(ˢ!2%!ˢ% ˢ#(%"ˢ %%ˢ
.!$R(ˢ (" (Q") (% "+ $ *ˢ# !ˢ.!$R "+$ˢ %#!$+ $ *(%ˢ(" *ˢ ' % *($ *ˢ
/ W#F"*ˢ%! ($ˢL ˢQ" (ˢ* +(ˢ 'ˢ#(ˢ(O \(. (ˢ+ * + ˢ !+ # $R " ˢ$ @2
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% ˢQ" *(+*!+"*ˢ %ˢ Q" .((B"'Q""*ˢ*(R$" ˢ F(*ˢ$ .. ' . ""*ˢ R("*ˢ
$ˢ ($ˢ #%".(*ˢ*%. ˢ !ˢQ" + *ˢ# ' ' "ˢ (*Q"(*ˢ+ ˢ + $ # !$ˢ(.)"1"ˢˢ%" ˢ
Q"ˢ%)ˢ+ $,(" ˢ(+." "*ˢ% +ˢ O ,ˢ"ˢVˢ$%".(*ˢ '#.! (ˢZ ˢQ"'ˢ$ˢ (ˢ ($ˢ(+9
((!$ ˢ+R$(ˢ!, O((. "*ˢ + "$ * ˢ"ˢ$ .. ' 1"ˢ(O ˢ ")Fˢ# $$(*ˢ(+ˢ*(2
R$"* F(*ˢ ". % Q"(*(%% *(,($ $!$(R $ (ˢ#(.*! "*ˢ.!$R "+$ *ˢF(,")ˢ
)1"%Q" ˢ)(.(*"*ˢ, $! ˢ#(.*! ˢ%" % ˢ) (% "*(..(*ˢO ˢ# $$(*ˢ *(R$!ˢ F(*ˢ(+ +ˢ
%". ˢR ((*ˢ"ˢ $R $ˢ*"$ ˢ "*ˢQ"ˢ(". (ˢ(%)) ˢ& ' Oˢ(# ˢ+ $ *ˢ .(2
" $ˢ%" % ˢQ" "! +) *ˢ. , (ˢ# $+ $ *($R $)$ *ˢ $ˢ)(ˢ $%".($(%)ˢ% "$,"5ˢ
,(.! "**(R$ "+$ ˢ ')ˢ ˢ&(".".

ˢ)ˢ ˢ#ˢˢ 5 ?& ˢ 4 ˢ+ &%ˢ4 ' 'ˢ ˢ $ /ˢ& ˢ
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ˢ□ ˢ :

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* . ˢO + ˢ$!$ˢ * * $ ˢ "*ˢQ"(. ˢ % ˢ($ *(.ˢQ"!+ˢ .."+ˢ
R$! (,($ ˢ"ˢQ"ˢ $ˢQ"!+(*ˢ "R" !.!ˢ # % $O(ˢQ"!ˢ(, % ˢ .. "ˢ+!*%..)"* ˢ
. Q")1" #(R $)!. (+ˢ, .."*ˢ# !% O" @
$ *ˢQ" *ˢ! $(%. *"ˢZ ˢ+!+%.*"ˢO ˢ.!($$ ˢ(,ˢ !R .($+ˢ!,ˢ(($ˢ
.."+ˢ + * ˢ# !ˢ$!% (ˢ(*) (ˢ* Fˢ)!$) + ,(ˢ"ˢ .. "ˢ)!$ *ˢ $ˢ (, ..(ˢ '# 9
* $+(*ˢ)" (* V(#%"ˢ)! $"ˢQ"(. *)"*Q" ˢF%! (*ˢ 'ˢ$! ˢQ"(ˢ,, O(.) G
)!$) $$(#!% *

]ˢ5 5 ˢˢ ˢ!ˢ#! +ˢ)! $"ˢO R $ ˢ("ˢ#." ˢ"$) (ˢ.!$R"*ˢ%"% ˢ(, ! ($(*ˢ (* %ˢ 'GG
*(ˢ#(ˢ)%(ˢ%" % ˢ"ˢ$%.(ˢ#!%% ˢ$!O *+) $ˢ"$) ("*ˢ.!$R "+$ *ˢ(+FQ)ˢ!,G
$,((+) $ˢO ,ˢ"#) ("*ˢ (ˢ(*, "ˢ$ *'ˢ#(ˢQ"(ˢ)(# ˢ $% "*ˢ%" (.ˢ ' 9
@ * 'ˢ(" *ˢQ"'ˢ.)%(ˢ+"(" (ˢ)"*ˢ% *% ˢ #%"*ˢ) ˢ)! $"ˢ(+ '# (, . ˢ (ˢ%! * '(
G

Hh(* ! "* ") (%% ,%. %Q((* ,)(* + %#)0)!% (,($# 1%.) !) $#(*
) 0 % $% * #(Q"()(# $$(" $ % +) * Q"(*("* !%+ $," # 0 +)"*0
Q"(!,. Q" + $+ (, $% $!(+%"* * "* % ! Q" $ L(. $ .. ((+ + ' (* ("*
. F% Q"0$+!1+"("* V. '(R $ ($"$ "* '#.), ($) C%"# * (#(!+.!+"*)('()
! + $. (, , (C(+ ' ((" * (+ . $ %. (* L * . Q" $+!5 +"(," V # "(R $ (
%Q"(* % $R" ! + $ f)!$L.(# ,($$ Q" (' (R $!, . Q""* ! Q" ,($ "
Q"(*("*)!.! #(*%".)" ()$!$$"..("* (*(.," :(Q" $. $R". %Q"(*(G
"* $ % 0 .. Q" +(*(+F")(##(,($ $ * ! , . %")!%$ +", (#!%.))3
Q""* $ $( )(0(#(Q"(+(* * F, ($((*$"*) $ Q"(:% + *%() 9
$ ($#(*$!$%!. + (. Q"(*(((" !% '#. (*%" _ . +)(* +"* ('()
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% *(#! ($ Q")! F" ". ($ Q"($+!Q" + *" + ' ($ *(.$!$0 + 1$ $)
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& :!4' ' $' ('

/ <0 U 9

% !.(Q"(*>()!," &.((")"1" %, () '0)! "*F % !$0) , (% * $!0
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%) , , ($ (. (. R$ F)(, % (.. " ($ * (. Q"!+ %#((, (* Q" , "
0" %.: 0 40 LA 6(## ..($ 0 / (.. 0 S0+) S (. . (F).; 55 +) " $%"! "%)!+ 9
0 .(F(, R $ (C"$"F Q# + *0 + (R$"* 1" %! *(:)"1" .."+ (Q"!+ $
0 . ! (+)!.(!$(+)(# + *(+ ..! , ! + +)(* $ % *#.) ,$ 00

)+0 $ (. $+ (+ .(($ (. Q"! ($$! 'F , ,(* 0$"$)+ $"+ 'F , !C(. "+
[* .. % F* . . + * $" C "* (, .. %! *++0 %"*)$1" Q" + *)!$ ()!G
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' ," '#'$ '+"!+) * C #%(' $ *'%! *('# ! %"' $()Q"(. ('*#+,' $' +! %"*'(. "R $:'
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% " * "$) (*)" * . * . .(" * ($! #(* (R ($R"% " * Q"!+(* * !+!)(9
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." * $R)." *)" +(* $!R($ Q" !+% , $! * $)% 1 %#!$+% ."+) ' "
* " * $) * $ $!R(Q" !+(+ * (, . % < $F($)L $ $ (* #!% * R!F")(+3
+")) +"(% (Q"("R * (R$ "+ $ (+)) , + * (!)(# U V ' " .! ,
%", F $! * $, % ' ' V '4. & C%) VC)) Q"(C$! %. * (%"$ ((R F!
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' ' 'O ' ^(. ((+<' ' " &5& * ! "" $. " * (%" # !1 O(dA6G5 %'> 3 !?&
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>ˁ [illegible] ˁ ˁ

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+ $ ˁL '+)) * ˁ $ˁ! ˁ .. ˁ ," ˁ" ˁ (* ˁ () (* ˁ)(#" ˁ(+ ,ˁ $")ˁ $ˁ ($ (ˁ)! #! ˁ * !9ˁ
. P>"+Q" ˁ $ˁ% ,. *)ˁ .(" * ˁ (Q" ˁ * F ˁ%() . ˁ# "(L * $ $!$ˁO(.+ ˁ(,% * L * ˁ%" % ˁ
)ˁ, ." 'ˁ * ($ 'ˁQ" 'ˁ ($$!Oˁ F % ˁ$(O (ˁ $!$(R % * !ˁ!+(O!ˁ%"# (ˁ * .. % (" * ˁ Vˁ
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* (())! '&!A9(3 %A [illegible]:OLO(## > (,($) Q" 'ˁQ"" * %")ˁ#! $!% 'ˁ (* ˁ %! * 'ˁ Vˁ * (9ˁ
R$)"+ $ ˁ(, ˁ ˁ * ˁ$!$ˁ%(+" " * ˁ ' % * (O ˁ%ˁ .. " R $" $(* ˁ)!$) * ˁF [ˁ(+#!F * ˁ
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ˁ (ˁ (+ˁ #))". (* ˁ F"1" ˁ ." 'ˁ+ %) 1# !$G * ˁO $ (* " Q" ' ..!ˁQ,+ˁ
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" %" ˁ 1 .(ˁ R !$ ˁ)F Wˁ O)ˁQ"!$+(* ˁL" % " \ˁ+) $ˁ(" +"!+) * ˁ "R" !9ˁ
"6&ˁ $ ˁ) O . $R(* ˁV (4)" * * (* " * ˁ)" * ˁ ($ (ˁ * # % ( )ˁV * ( )! * [illegible]
* ! !$ " ˁQ" ˁ %)ˁ(+ ($ ˁ% ˁ $ˁ%"R(* ˁ)!$) $ Vˁ!'!ˁ(,+ $ ˁ $ ˁ)!. ˁ ..! ˁ(Gˁ
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%# OCˁVˁ * ! "(ˁ %)ˁ1()" ˁ% # * ˁ(" ˁ !+!ˁ+ .ˁ " ˁ (+ˁ)(* ˁ)!$%#) $+(* ˁ ˁO) $ ˁ" , 9ˁ
," ˁVˁ.!) ˁ $R $ ˁF! * $" * ˁ * ". "+,ˁ)!$%.") ˁ#(* ˁ# + % ˁ $)) ˁ#(* ˁ Q" Oˁ
'F + (" ˁ)" "O O(ˁ [illegible] 9ˁ I
1" #! ,ˁ.!$R "+!ˁQ" $Q"(R $ (+", " * ˁ(" ˁ "$ ˁ# +" * ˁ%" .ˁ)%(%.. "+ $ (* , 9ˁ 2 !ˁ
3ˁ " $ˁF)) ˁ$!$$"..ˁ+ #($ ˁ R $ (ˁ# +" * ˁVˁ"$ " ˁ%" %. ˁ(. 1ˁO ,ˁ.!$R ˁ * (1! * ˁ%() ($ C
'(O (* $ˁ * $%" (ˁ%" * ˁ$!$ˁ#! " ˁQ" (ˁO!." (!$)ˁVˁ(R (!$ ($ ˁQ"O * ˁ $) Gˁ
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Gˁ [illegible] (* $,"

> ' ' ' ' ' ' ' ' ' ' ' ' ' 9

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)"1('O '# 'R ($+ 'V !,Z% 'F(, ,($)C $')(# 'O %"'+! %"*') (' (*'%! (* $'
))) '# + '(*#."* # 'Q"!+'(Q"(*' $(. "*) ,(C $% ! '*($+ ,".(3 $'Q"O'
..+ $ "*', $! + $ O # *'# +"*'.!$R "+ $)*'$!$' ') + ,(V'% (R* $%!') (%G
% V $R $ '*(.'$(O ')!$% '#!) (C.$R"(' ' *('#(' (**(R$('V) (%(' ()'()'
+!. "*) O%("*'C!)".! "**(R$ "+!'# !' ($'O(%!')! #! '$!$' ()'*(1! 'Q"(*'
L#("*'Q"!+'#!.. ''V'+R "' $+ '' ' $%)!*# F $+ #! ($C+%(,($!)".'
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+ *'% '+ $.'C"*, .)" '('*($+ ,". '. '+) *'# +"*'L#(!'+%(,(C'(,'"*, _)!'
(+'# $ *' $ %) "*' (') "'# +"*C# $ 'O ,'1(*'*! "'% "# +"*'.!$R "+ $ *'
F(, ,(C('# $)'(" *'(+'#!+) *') "*'# +"*')"*'L *. ' ()'+%($) (C V'('#!+) '
(+')("+(*' +) *')"*'% * L C #%('O ,')("+('O(.+ ') (%.(' +) *'# + '(. ('%O#
.((') (' &!%'#(" _1O $+'+ '%"') '. (', ."('O $+ (Q ,"%+(*'*)(! , ' (')(5
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Q" $'O".R,' # *(') !..($+'_ !' '(## ..($ C)' ! ('(" *')! #! '*!. '$'#(G
'L +('V'+ $+ '"% ".()(')) 'Q"(+ (R $)('+!. ('# (+%!'L * . (#. $('# $R" + $ '
H ') #. '# ('*(R$(!'Q"($))(*'%#!$ '% " $ *' (,'(. ')!.. %, * 'V' ($'Q"(' $'
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.N 5'(. '#! ,' * .. % *!'% ') $ % *!'# *!'%",' ' * " * '7) *, *'' 'O + a
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3?])O 4)($"* O %"'* + !$(. *'#.(R(*:')"1" '.!$R "+!'# (++'.!$R "+ $ *' '9'
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R $ (L '# +"*'* $%" (*'(Q"(,( )("+('# + Q"("! +) *' ('.(('! ' +" '+"!9'
!) *'# + '(*#.") (:+)$)f (*' $' $% ! *($+ ,".('+"* ('('F(, ,(+"#. +'
, + $ % * . '+%#!% ! '$'%"#*! ' !) + *' (.O !.! 'Q"'+ $ 'Q""*' +"*').(9'
+)', ."(') # $ ' (%)". $ O'" (*' ()'V !+)*')!.! # (+ ('Q"!%"#)9'
! '")* F .("*C'($'O ,'Q"'% "*%) $) ' ..(" # ! * .( )

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& '< $' /

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)(*'*($(*'(## ..(,(!)C" ".Q" '(" *'% '"'!)) + ($ '*(*'V'% * $(*C*(b'
')! "*' $ R "*'% (* $ ' %"%%( ) $("*'+ ') (, '%"L# $%" *3')"1" '+! .,')("." $'
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i ,(* V#$) ('(. Q"!')!%(% * $(:')"*')(* '(+F")(+F($:')($ *' $ $ 9'
I 'O + (($' (*Q"(*',",".(' ("."*'#! ,'"'# !#! !)!**!+ '!,% O('#!&'
% ' $'(+#!% (' (, ..('13 * $+"*')" (,(* (+' 1" $! *(*Q" *' *% . +(* 'O 9'
+ (* 'Q" Q" #!% ($')(+)*).F! #!)"'%"%# $%" %") "R+"$' ((O! "*'' '
' ' '!' ' (" *'% ' "*'V')" # '($ *(.'%" %%'O + ,(" C)(# 'O ". $!'% +'#("..,'
% + ! '!)". G% ')($ $:'O(.+ ') (% 'V+" (', O ,"%Q" V (# . ' ') $ () !'
C%"L)')!.!$'!,% ()" '# (+ "*C '"O '.!$R "+ 'Z$(*'+ * $%" '%"*O'# +"*'+) $'
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$(%" , $.))" +" * #(Q" ((##)F) + #!) %.C . , (+ #(%))$ $))(Q" (*
R + $: $ *)(C)!$ $ F !. $ %(R (1 ")W * , (% O * !$! 'W.! F% 1"% * !+
%) V (. ! #.) !%Q" ,)) + Q" ($%" * * ((Q" ($(($ C F(* (((Q" 1(@)" .( )!$ 9
) "$ $Q" ! " * %" * * ! $" % +O(. +" (.. R(" % %"$)" ." C + # %) %"R %"$)"9
." * (") * .(' (%(R (" $)"1" ' * ! . R$ (" %" , % (R *)$ " * % (+$ ' " *
$ # ! %" * R Q" (%"$)" ." " $ (* " (##((1" ' * (C # % O , 1(*
% %%" ! , # !%" " * %($R" $ * V * ! O) $" (+ . " (## .. " $ %(R (")! .. 9
2%! % ! %"$)" . !9+!$ %"# % +" * (' (+)) * (" +" !+) * ! RW (" * . !$R "+!
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* ' ' $R(C% R (" # %% 0 !) ! " * (" ' . ! " (Q" (+") (+ , (" * * (R$ %"$ % # %)
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% % (* , " , " .(* %% % F # %" (+ C * , ! * $ * ! (. %(..) $ "@ Q" ((+F"))9
) $)($ * * (R %(# Q" (* # .) * B" ((" *)!$) %(V %))((% $Y" .(%
V C * " . ! * #! $)! "# (% O(#! % $$! ! ' ' ' ' F( )) O (7 ! * $ 9
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#))" ." (%)) "$ 7 , (" * F .(# # * * , $ (+" #!% ()!$ V #) 9
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) ' R $!%, O $!(. , ! " (! F("% "%! , ()' $ * (!$ %" * # " * ($ + , " (. a
Q" !)!$ $" +! . ! (+ * +) ") (.)" . "%Q")! * * $" V $($(* %! .O Q")" *
" F( ) " % "+ (O % + +R$ 5Q" 1" #)" . " * %)) "$ $ ..)' * " . !%Q")
)!$%# ' 1" R ((+ . R $ F"$) .(# + * # Q" $! . $ (" * % $R" . (9
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) , (. % (L! ,)" .($ * $!$ %"$ \ () $ +" * * (1! # ! # %) " * * (R$ "+ $
($+ * O , %()" . ( ) * F! .(# + F(, (, ! Q" (# (+ %"$ 1Q" $! () $
V * , (C)(# # "$ " %))+ $+" * &. $! Q" $)"1"%+(* # %))(#)O) . " .(G
1# + # (O(.+)! * * $+(! (+1C! . +! . ! % "(Q" (, , ($ " ! " * # %) " *
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)(" * . !)! ' R" (%! (* $(F(, # Q" (C("+ 1")! " * % * . "% " .(#!))! !
+ R * + $%" *) $ (!)! . !) (%Q")# . # ' + "1$C !#((!)! * * !+() $R"a
.(V)(.) ! " * %, .)(% "$ (; (CQ" % * . O"1" # %))("+(O% + ! . (#(
(+ ' * " * "%Q" ! ($ O!%(% C " ($ #( )!$) %(+ $+ %! . # Q" $Q" ("
. " + ' #!% (O %))((($+ * $ #(..( )!+(% O O " % +(* " . (# $R" +!
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)" * V $, " * %) (Q" (O % + +R$ ()) # %% * Q" ($+!Q" +) O % ! (C%)
) , * H)!+"U " ($(* $!$) * %()) * # (C% (" $F!))(# #! O Q" (* ([,
>4 ! +) (+ * (, . % !$ R! ! (R(*) $+" * % (Q" Q" $+(* # % * #((" (.!$O (
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$ * (*)! #!) (%. "+ $ * %" %. '# % (*
(#! , F # %)! #! %! * (V)!.! / (. ! " * R $," (" ($)".' % !9
. O(.+ . * . : $".F (* $ * ()"F " . ( )!$.#) .(*)" * F(, $ # $+ (* $
"+ * V $% (8WR($(C)" (L# ($. %".) $ +# .,)!.!$ LQ" * O + ,(*) $ ())
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#! , $(LQ" ," $ ..! Q" + * Q" *)!$%#) ,((O) $(($ Q" $(" * Q" ($9
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" F # %) " #." * " * $) ($!!)) +"!C) Q"! Q"! * F O +) . 9
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F (C %#) * (. Q"(*) $% $+" * C $(* L# $(* % O ()". " * F(, ,# $!$ Q" + *
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)("*ˁ (*ˁVˁ ' $ ("*ˁ+"* ('(ˁ)!$%#) ,(*\ˁ ˁ) $ () !ˁ%"%) ˁ $ˁQ"!ˁ (* $ˁ
Q" +(*ˁ)($+! ˁ#1)%) *ˁ $ˁ R! ˁ(+F")ˁ .") ˁO O"*ˁ $ *ˁ Vˁ) $ ˁ)(#)"$ˁ
(R)$ ˁ#(]$ˁ)!.! ˁ%" ˁ $).. R ,(*ˁ* +1ˁ)! #! ˁ(*, " ˁ# + ˁF!)ˁ % ˁ+"!+ 9ˁ
) *ˁ"$) (_ *ˁ.!$R "+ $ *ˁ'Q"(,(:ˁ)(.(R F "ˁO ,ˁ (V .'Oˁ)" ˁ# '+ " ˁ !% !ˁ
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$(((ˁ* *, ($(ˁQ.(ˁ%" %"*ˁL .ˁ(!.. $ ˁ ." ˁ$",)(. R *ˁ .. ˁ!% " + ˁ
! ˁ +" ˁ$!$O(.+,ˁ.(" ˁ $ˁ%"# $(ˁ)(# ˁ#(ˁ*(' ..(ˁ $ˁ!, "%"*ˁ($R"."*+ % $ $3ˁ
ˁF(, ,(ˁ% ,ˁ")ˁ% * 'ˁQ"($ (" *+ $," ˁ! ˁ# '+ "*ˁ (ˁ, $ ˁ $ˁ%"# ! ˁ
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% + ˁ" #." ," + $," (* ("*! ˁ O + " ˁ ! #" ˁ(ˁ)) O) ˁ% $% *ˁR () . 9ˁ
%)),(ˁ #$(ˁ%Oˁ()".)!ˁ %ˁ (ˁ#(ˁQ"(ˁ+! %"*) O))!$$ + ,(" % ! Q" ˁ% U"$9ˁ
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Q"O$ˁ $ˁ"..!ˁ / (. ! "*ˁR $ ˁ)!$.# ' $. ˁ$!O *ˁO + .) ˁ"$) ("*ˁ .!$R "+ $ *ˁ
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% +(F! * $"*$ $+"% (%)% % (($ˁ Oˁ$(" (Oˁ $ F .ˁ# !$") (ˁ#!% "* ˁ(. (ˁ+ $+ ˁ
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+(*ˁ"%Q" ˁ $(Q (. ˁ#! +(F!) % ˁ(+ˁ)(*ˁ".Q" ˁ)("+(C#(*ˁQ"' $" %. *(ˁ
% # *ˁ"$) (ˁ.!$R(*")("+(*Q"!+(* $!+!(*".(,(" ˁ &!+) Q" ˁ $ˁ%"# $(ˁ#(a
ˁ" ˁ $ˁ . Q" ˁ# % ," ˁ% 1ˁO) $(ˁ(##(,($ˁ, $(ˁ%! (* $(ˁ $ˁQ" $ˁ"%"*ˁ R$! ˁ
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* F(!,. O(ˁ#! " (ˁ $ *ˁQ"(. ˁ%" $ ˁF"1" ˁ# %) ˁ#(ˁ $! ˁ" ˁ+ % 9ˁ
,(* ˁ $ * !ˁOˁ* ˁ '# +(ˁ+ , ˁ" ˁQ"ˁ ' $ ("*ˁ Vˁ %))("*ˁ%Q" *(+* !+" (9ˁ
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+ ˁ!#S (*ˁ $(O(($ ˁQ"! ˁ%ˁ !$%". ˁ.)" % ˁ '(+ ! *ˁ+ % # !$ *ˁ+(ˁ#! "%9ˁ
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%)(* Q"(C $!)! ! ($(%) " (, F()Q"(C((* ,(W($R(.((. Q" .!) (+O F$
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! (%!$)'"%Q")'V R !$ *' F _(*' '' O) $$(C. ,'')(#1])% *!$!' ')$+ "
. , '(" *) "*')% F!)R"** WOA50' (, ," +) $!$$";. $(*')"9'
=)"*Q"' (,'R"**'3Q('("'* '(,' $+ 'O!)("*'!%)$+) '%(*' +'5 '%O'
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, '+ %%) .' %
'''' ''(,' O) $$(F, ' ')(#'W]'$!* $," $% R$ "*' %'F!)'* +)(* *"*'
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? BO '7 (" *' $ # *'*!O '). *' O 'R$! !'$%'Q"!+'O) % * .)
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+ # (O("*' %. ' I
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!$) V)!(-.C)"1"' *)$ (C O+ "'/ (+"' *!$' !** *($ (9'
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O (*'.$R"(* (,)(* R$! (%.)"*' '' ( )(%#($1)! "$+"'%" '.$R"('O ,'
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g0 1" '$"..('$"$)' ' $'O % R (\' $'# !O $) ('], Q" '% (' L %'O ,'], Q" '#(' ((9'
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' ' 4 ("'O + " ' !. $' ..' .(*'%" '1".)". 'V'!. ,"')!** .)))')!$%)(!'# * *'
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' ' ' ' (#"+' $+! ' ..'# 'Q"S+')!'#." *"*' $(' (*' $' $ '% ! ($9' '
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&'!' ' '!' (. '+"!'R $ ('(+' $+! '(+% "$ " '(.) "*'% $) "*'V' ($%.") $ '(9' !'5' ' '
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* +)(* $ (') + \'$%' $'#" ! '+ % %"' $) "*'O(. + ! ' % !+! 'Q"(*' , 9'
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Q" + *'O ," !+! % "*' +) ,(" '$!$'Q"!+'%"(O '!. ' . +'Q"!+'O(. + ' %.)'
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O $! * 'O NcVO ' ''% ..( ) !' !%("*'. Q"! '%"*# (C'$)'% $%" "*')('+ ')!$ (R !$ '
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$ 'O(. '(. ! Q" '# ( )('*!,! 'Q"!', O (')("%('!* !' ($)' R " ' %. ' (9' !' ! &'
. # "*' / (..)"*)"1"' $($ * +) * * $ "$ 9' '% Q" $(')!$.".($9'
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5 1 ' ! ' & &'!' '^!' $1" '#." ('%"('R $ (' +'(" *' ((' * '(' ')(! , " ' '# " 'Q"!+G'
* WR+(.! +) 'GO!)($ Q"!+Q" '"$R" '% "' * ()".(($+ +((+ * ' (F(, (* WR+(9'
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O =& 4 ' '!'R $" '$R " ' $O $ " ' $'.(!('V' (* (('Q"!+'O . ! ' %'# ' %'V'R a
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O!)(" *.' +'%"# ! '+)"#.!')(" % ' .. " % (R * % " *'%"# !$, " '+ , " * F '+!9'
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*)) !) $ # ! * "%) +)B * #)F $+ 1ˁVˁ $ˁL)($Qˁ)0"!+(*ˁ + #!$ ˁ ˁ ,(ˁF)ˁO ˁ1
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- " * AD%D $)!. (## _? "$ˁL+ Q"!$! $% " \ˁ%"(* ($"ˁ # (," %.)ˁ Oˁ ˁ" 9O:MG V ˁGGG
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! * $) ˁ+ % R) "$ # (ˁ"$" *ˁQ" ˁ %)ˁ# % :ˁ " ˁ()) + + #F((+ ($+) ˁQ [19ˁ
+($ $!+! ˁVˁ# ! * "% + ˁ+) .) $ ˁ)$) ˁ " $ˁ)+ # ˁ%"QQ" ˁ+! %!ˁ * #! , :ˁ #
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+ ", (($%")" *ˁ ++)) 1V $" ,) * #)..)+ ˁ Oˁ 1
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]$ " *ˁ ! * $ " *ˁ , ..)" *ˁ%",. O(ˁ)"# XˁQ"!$ (*ˁ #% " ˁ +.! ˁ R (O ," ˁO ,
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ˁ O ˁ" ˁ,)$ %) ! " * %"$+ * ! Z R.!$(1(O + W, , * $" O F+ % ˁ)"9 > 5 9ˁ
+ % + # F $+"$ " XQ" * (+ * ! + " $)(GˁQ"(] $ˁ " , ˁ !)F $ˁ() + _$:ˁ +!) 9ˁ%GGˁ I
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* . ˁO) $! ˁ%(O%" ˁ $ˁ #%"$.ˁ !$) ˁ+ $+ ˁ(, O)." ˁ "ˁQ"!+ˁ $1" (ˁ% , ˁ ..((ˁ
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(.." \ˁ(,.)$ %"! :.! !, $ * . *ˁ)" *ˁ(. ˁQ" ,"%+(*ˁ% * !$ ˁ)!$% $ *ˁ
)! %#) ˁ# ! * "% + ˁ #%" *ˁ ! # *)ˁ ! " *ˁQ" ˁ !R(,($ ˁ" ˁ * . *ˁ+ $ % AˁO!Oˁ
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< ! ˁ#! ,ˁQ"())"$Q" ˁF ˁ+ .)#F($ ˁ (+ (ˁ%"$ A $ ˁ (ˁQ"(ˁ UQ" ˁ#! _)9ˁ
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% (ˁ(+0O O" *ˁ #% ˁ+ # $R * ˁ .. ˁ #% ˁ.!) ˁ _, ˁ $(% "F " M$!$ˁ% $ ˁ . , (ˁ
]ˁ + %) * $)ˁ) ,.. R ˁQ"!ˁ (*ˁ O " ˁ+ % , ˁ#!% *ˁ ˁ) *ˁQ"]ˁF!)ˁ. , ! (9H \ % 5$D ˁ
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L. ! ˁ) !.! ˁ * + ! ˁ $ ˁ " , " $ 2C%".O" * ˁ $: Q"(. V * " ˁF, ˁ(ˁ# +)".!ˁ(+ˁ 'Gˁ
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Q")) $!ˁ%! ˁ) !.! ˁ$ ˁ(., !ˁVˁ.(+ !ˁ%")) !ˁ# (R$($ ˁ+" *ˁ) $ ˁ % %.(O L))$9ˁ
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VCˁ & : ',ˁ(ˁ +) ˁ ()F * $ ˁ & '/ (#"+ˁQ" ! ˁ%" * * !ˁ $#) !ˁ % ˁ(,+ ˁ) ! '
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A(!Q ˁ)) (ˁVˁ (.O ˁ# !%."O (ˁ * (, . ˁ%")) %."ˁ)" ($ ˁ ! * $ ˁ +) ˁ)" *ˁ ()F * F ˁ " $ˁ
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+ $+ ˁ* +)(* $!ˁ." * # !!] (* G$$.(. VC," W !) !L% (* (Q" ˁ#"..! ˁR(.. $(Gˁ
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," ʿ(,% $ (ʿQ" ' . "*ʿ!%. $+)ʿ#! "$ ʿ &" R(!$ ʿ(,L, " ,!$(ʿO + " (!ʿ. O _Oʿ
+(ʿ +ʿQ".O+ (R $ (ʿ)!$ $" ʿ+ ," O $!Q" ʿ(, + $ $+"*ʿV * ". ," C#! " ʿ
F $ 'ʿ%"# O! ʿ1(*ʿ+))!O. ' ʿ+ $+ ʿ$ʿ"* , (ʿ %))( ] ʿ"$) (ʿ"$(ʿ$ʿ% "ʿ(Q"A% ' (%.ʿ
). $"!,".. .(Oʿ+ * + (ʿ . "+ʿO !ʿ+ . R $ ʿ)" ($+"$ " , $]ʿ (+ 'ʿ#O O"(R !)ʿ
VʿO R $ ʿ,! Vʿ *# ʿ*()) " ʿ($ ʿ+))!+ !$ * ʿ+O ʿ. (ʿ% (ʿ$ʿ R $ (ʿ% O ʿQ"(+ (Gʿ
R $ (ʿ+ "*ʿ1 ! " ʿ"%"* ʿ O

ʿ ʿ @ ʿ ʿ7OO(ʿR $ ʿ* ! ,! ʿ" . ʿ +ʿF])(Q"(." *ʿO $))(*ʿ)"1"%)" * Q" ʿR $ ʿ
/! & ʿ ʿ O".$ (Vʿ".) (ʿ($ Q"(ʿ " * ! ʿ%) F!%, ʿ+ % " $ ʿ( )".! " *ʿ+!.! *ʿ%,.O $
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.! ʿ* " R(ʿVʿ+! * ()F Cʿ+ %." ' !$ ʿ! * $ ʿVʿ F " * (+$! ʿ% + ʿ,!$"*ʿ)!.! $ ʿ
)!$). (ʿ+ " * ʿ%!.O ʿVʿ! * $ *ʿF #(ʿ$ * #O *ʿ * $+(ʿ(+ʿQ"(*ʿO(.+ ʿ) . 9ʿ
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," * ! * ʿ"$+ ʿR $ ($ " (,%" * Cʿ% R + ʿ! * $," ʿ* ! , ʿV.ʿ* .($),!.) ʿ)!$O $ ʿ
O $)"." *ʿ !,! (ʿVʿ! * $ ʿ%.(" ʿ+ %," ʿ , ," ʿ+ " " $ ʿQ"! + ($ DO O 9ʿ
) # !+ + %"+! ʿ $%.R$ # !O!)(!$ Q".ʿ) (*ʿ $ʿ# + . $," ʿ% , ," ʿ" . *ʿQ" Gʿ
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) >ʿ ʿ +ʿ $ʿ%)"$+!ʿR (+"ʿ)" *ʿ ' R"!ʿ)(.! .ʿ +Q" ʿ+ #), $+) ʿ.) ʿ "ʿ ! Q":+
(Q"(ʿ)" *ʿ / "(W() ʿ " $ʿO(O]9#(..]ʿ)(.)%() ʿVʿ..) *ʿ ʿ) (1ʿ,])ʿ$)Q" ʿ% *ʿ)
Gʿ $)Q")(.! ʿ(.)"1" ʿ$+) " *ʿ . $Q" ʿ !, . ʿ# !)".+", !ʿ* +)(* $ " * ʿQ"!+ʿ $
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DH & !&!& ==&

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. + ." ! ʿQ"] $ +" *ʿ (* (. + * %.$ " ʿ" Q" $ R (ʿ) ") O!. OO# !%"$+ ʿ
%!%. !$ ʿ!#" ʿL Cʿ (* ʿ$!+!% ʿVC R$!%. Q" ʿ%() . ʿ+ %.))($ " C%.! + O" % "-." *ʿ
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ʿ7 %"# ! + %% $ * ʿQ"!+ʿ. (ʿ)($+ + ! O (+ʿ#(..! *ʿ)$+ $ VʿR () . ! 1ʿ,])ʿO +ʿ
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! !) . i 7ʿ ʿ /ʿ ʿ Oʿ ʿ$ R ! ʿ)))$ ʿ$!$ʿ)(!%(ʿ% ("ʿ)!$ " * (' ʿQ"]Q" ʿ(%.".(*ʿ% ($9ʿ
R " ʿVʿ#!$+ !%(Cʿ$(* ʿQ"])(*ʿL $% ʿVʿ+" *ʿ% ($R " ʿ#".O ". $ (ʿ + $" . ʿ
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'# " %" *ʿ% * . ʿ%()". (ʿ#]+ (*)" *ʿ. (ʿQ"] 'ʿ %#($ (ʿ !O((+% " ʿ(+ʿQ"(*ʿ
* (R ʿ()) + ʿQ"(*ʿ(+ʿ,($)ʿQ"]ʿ$ʿ !$+" (ʿ$O $ " ʿ / "+"ʿ $% # +!ʿ +ʿ ʿ% $ ʿ() Gʿ
* !$ (ʿ$)ʿ 1" (Q"(ʿ, ! + () ʿ%(# + ! ʿ +
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$"$) +Cʿ " $ʿ $ *ʿ $+! " *ʿ)!$%" "+!ʿ!,% O(,(" ʿQ"(*ʿ $ʿ%" ʿ* ! , ʿ)" ($+ ʿ
"%" #(ʿL,. $ ʿ(+ʿQ"! ʿ# Q%. R($+! ʿ* (' *]ʿ # ,(" ʿ %%)()] ʿ $ *ʿ$!+ ʿ%]Oʿ
)". ʿ+ .)]= #)("L(ʿ%# "$ ʿG"ʿ !+ *ʿQ"!ʿ/ "(W() ʿ(Q"(ʿ* !+!ʿ$"$)ʿ# !# $ "
% O 1 / OO@& ʿ% , , (ʿ* $" *ʿ)!$) %(ʿ(Q"(ʿ* () (,(" ʿ+ $+ ʿ$ʿ* ! (!ʿ
O# + " "$(,(" +!$! * $ $! $ʿ* ")(R $ *ʿQ"($+(* %,.O " Q"(*ʿ+ %+)!9ʿ
O,(ʿVʿ ʿ# * ,($ ʿ "1" ʿ. Q"! ʿ (ʿ '# %. ʿ%( )(#() *ʿ)W(," *ʿ)(. +" *ʿ* ($:ʿ
,(" ,($ ʿ+ $+ ʿ+ (R". ʿ% %)ʿ R ,($ ʿVʿ+"(" *ʿF! (" *ʿ%#(!ʿ%"+(,($ ʿ B ", +ʿ%
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ˢ ˢ ˢ "ˢ ˢ ˢ ˢ ˢ ˢ ˢ ˢ 7ˢ ˢ %ˢ "

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F("$,($) (Q" ($ " * + *ˢ *#! 9ˢ ") ($)ˢ%"+(,($)ˢ)! +!ˢ) +"!ˢ $ R ! !N9ˢ
. O(,(" ")$ Q" (. "+)+)$ˢ (" , ,) $ ˢ# (M) ˢ " * . $! *ˢ)(. +" *ˢ '# % ()ˢ
#(..()ˢ (R (!$)# '#(((*ˢ R!ˢ $!#. " * Q" ˢ# !# $(O ˢ* "; ! Q")A * 9ˢ
V* ˢ)" (O Q"(*ˢ$"$)ˢ L($($ " ˢ ",.)) % (ˢ %ˢ(. (ˢ 1" ˢ# !# $($+'ˢ (!ˢO +). 109 C
7ˢ "$) ` E(C'9#(..(Cˢ ! -)!$% (2%) ˢ Vˢ * $" *ˢ) !$) Z QF!O" * K .)" *ˢ 'ˢ %9O(ˢ $ˢ
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0 . . 1 !Q" "$ " . $! R$ # "$ $) $L, ˢ (+Q"("! ˢ % ' (! "$(ˢ)!$.W (# !$) *ˢ
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&O / O ˢ " ˢ+) ˢ'R ˢVˢ)(. +!ˢ ,",)".!ˢ%ˢ)!$ $ $ ˢ * ($ ˢ+) $ˢ"$) (ˢ4. ˢ
! ˢ1(%'9#(..'(Q" 'ˢF(, ˢ%"+(, ˢ+"(ˢ. ! (ˢ%"+! ˢ+) ! $+"% " *ˢ Vˢ. $)(9ˢ
* $(ˢ$ " (, ")ˢ $ˢ / "(W()ˢ#!) !$ ˢ+ +" *ˢ %ˢ + *ˢ ",ˢ$!+) * !+!#!% ˢ# ($+ " *ˢ
. ! ˢ L$(*ˢ ",ˢ"F+) * (*ˢ# ($+ , \ˢ%() Cˢ#!%ˢ%"+! *ˢ "O(ˢ#(% (ˢ(* WR+(.(ˢ ˢ#(9ˢ
$ *ˢ , % !+" *ˢ)! $(, ˢVˢ+ ˢ%)"$+(ˢ(Q"(ˢ , , ˢ B" $+)) *ˢ + ," F"$)ˢ ! + $ *ˢ
![% O(, $% * ,) ..'%" $ˢO ˢ "$)ˢ $ *ˢ)!$) + " ˢ "%"ˢ)($ *ˢ)' R" ˢ#"..ˢ
(%) ˢL $% *ˢQ"($ (*ˢ("R $+!ˢ +!ˢLˢ)!+ $, ˢ(+ˢ * $ * " *ˢ$!O *ˢ+)," ˢ#$!9ˢ
_O . Q"% ˢ $)",)".!ˢ L +), (" D ((,".(,)ˢ% R" ˢ V(*ˢ%"R $ ˢ 7) * !9ˢ
Q O OO" R(, " ˢ. $ˢ(. Q"! * +)(* $! (Q" (*ˢ R % * !ˢ+ ˢ! * $ (ˢ (ˢ! ,% Gˢ
O($+!Q" ' $ / "(W() ˢ+)!+!%" * $+! $((O * " ˢ + (* #!%ˢ R % * * $ˢ+ *ˢ
,!$(W +" ˢ (!$)# ˢQ"(+ (R $ (+ ˢ" " O $!Q" (,% $), ˢ ˢ * ". "$ˢ)!$R %9ˢ
%"ˢ ')ˢ %ˢO".R(ˢ(Q" 'ˢ1(1'9#(..'ˢ%" * $+'ˢ (!ˢ)"1" ˢ# '#(($+' * !+! %) 9ˢ
! (* '# " ˢ% * ˢQ"! ˢF ˢ) $% ˢ$!$ˢ # R , ˢ$ Q" +ˢ ! " *ˢ# ' * (9ˢ
$" 1Q" '(+1(%(*ˢ#(..(*ˢ# $ $ ˢQ"($+!Q" + *ˢ * +)(* $ " *ˢ %ˢ ˢ)"1" %" ˢ
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ˢ ˢ($$" ˢ %ˢ% ' " ˢ ˢO) % * " ˢQ"!+ˢ W "#" *ˢ)!$%) ˢ$!$ˢ * !++ˢ $ˢF()ˢ" , ˢ% +ˢ
! (ˢ L#($ (.("+(%. * " * (+ˢ * ! ," *ˢ / (.)" * (Q" ˢ(. ! ˢ# !%. R($+, Cˢ$(*ˢ$ Q" ˢ
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1$ R(!GCˢF!)ˢ * !+! ˢ
O %ˢ1 9& CKˢ "$) 'ˢ+" ' / "(W() Q"("! ˢ " %"# Oˢ+ +" *ˢ % # (%#((' ˢ &!!: > ˢ
b] #F(% 'VCˢ R $ (# "$(#(%.(ˢO R $ Q"("! " (Q" ˢ!%.)". ˢ #" R((ˢ %.! " *ˢ # !ˢ
! (R $ ˢ% * "$) (ˢO !.(" *ˢ ($ " * + * F! + ˢ * "$+ˢ(. Q"! ˢR ($(ˢ $ˢL "(Q" 'ˢ% '9ˢ
" ˢ. $!ˢ R$ˢ)!Q" "$ " ˢ(+ˢQ"("! ˢ% ' (! " *ˢ)!$%" * # !$ (Cˢ)!.($ " ˢ ˢ+) $ˢ
F"1" +))!+ ˢ "$) "$(ˢ.W "#ˢO !.(ˢ(+ * % " ˢ (. +" ˢ * ($OVO %#) %! , $+" ˢ (ˢ ! ,ˢ
+(" !+) * % O(! : + $ Q" ˢ%"# (+ +" ˢ % ˢ%"+! *ˢ (*ˢL%ˢ# !O!)(, \ˢ+ 9ˢ
R $+!ˢ !$) + " ˢ(, $!ˢ %" ˢ#"..ˢR(.. $())' R" ˢ ˢ). Q" ˢ) , ˢ%"# ($" * O (ˢ !&! ˢ&+ ˢ
V, , " % #(#. 'ˢ(Q"(ˢO(O'9#(. ' Q" 'ˢ% ˢ '5 1" ˢ% * "$) (ˢ $ˢ!+!(Q" 'ˢ% ' ( )!+(ˢA%c&GGG
(+ˢ+"# " *ˢO ˢ#(".!ˢ(* #. " ˢ)!$%" (# !$) * ˢ (ˢ (!$)ˢ)" ($ " ˢ ' " *ˢ ! * $ ˢR $" ˢ
$! , / (.. O.O" (ˢ . Q" ˢQ"! ˢ(Q"(ˢ/ "(W() ˢ F $ ' ˢ(" ˢO(%'9#(..'ˢ)" (ˢ+ ' $# "
O.[ˢF!)L (# " * # * +)!$.) # " *ˢ $R ((* &($ (. !$ ˢ+ ˢ R !ˢ / $" $% ˢ ˢ
Q" ˢ.) ˢ1(*ˢ * ". ! " *ˢ +)! " *ˢ!# (ˢ"%" ˢ%" %. ˢ(Q" ˢ / "(W() ˢ+)!+" *ˢ(. (Q" ˢ
+)(* $ (%" * #% %. 1+ 1 + .. * ˢ (* $ (O ," ˢ% F!Q" $%"# ˢ $ˢ)%_ Vˢ ˢ t
'O ˢ+!.! ," ˢ(%%. +(, (" Cˢ(ˢ%" * # !ˢ. (# ! ˢ# ! ,)" (" ˢ % ˢ ˢ
- ˢ *ˢ (. " ˢ%W "#" F"1"% * !+ %(%'9#(..'ˢ!+!ˢ "F) ')!$% (+'ˢV)!$) A' ˢ $M%O%O %M&W ˢ
!++ˢ(Q" 'ˢ% ' (ˢ(+ˢ%U)!$%" * # !$ (ˢ)!Q" "$ " ˢG$ˢ, $ Q" ˢ%"# "$ˢ% ' (Oˢb U
%())F(. , 'Q"("! ˢ $) "$ " % Q" %W "#" " * ! % ˢ 1" ˢLW "#ˢ % "$ 1'ˢ * (9ˢ
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#.) 1(%'9#(..'(Q"(ˢ !" (" ˢ+!$ ˢ(,%" * # " % ˢQ"!ˢ * #! ˢ(+%"($ R+ (# O9ˢ
(R $+(ˢ R + ˢ$!$ˢO (, " ˢ (ˢF ˢLW "#" #. !%Q" ˢ 'ˢ (! , ˢ%"# (ˢ $" * (ˢ
% $ ˢ * !. % (ˢ
9ˢ 'ˢ (ˢ (*ˢ% ˢ#".O $F"$)ˢ * !+" * Cˢ O!ˢ ..!ˢ $) ! ˢ% "ˢ * ( ) ˢ)' (# ! ˢ% 54= Oˢ
#(%(9#(..('.))(" 1)!$ "$+ " 1V) , (" ˢ "1" ˢ#".O L#" R(!ˢ#)! #! \ˢ
! (). * (* * ($ 1 1"$" %" * ˢ(Q" ˢ% * #.) *ˢ # '+ +(*ˢ (Q (*ˢF(" 1ˢ + *ˢ $!+"ˢ
%() ˢ+! * " " ˢ ," ˢ% ˢ ,!$ ˢ%")) #! " ..(ˢ(Q"(% * #%)'9ˢO $!ˢ(,% W O ˢ . %ˢ
F ˢ#".O ˢ $." ˢO $ (ˢ(. Q" ˢ * ! , ˢ(,ˢ (ˢ! "$+ Cˢ$)ˢ$!$ˢL)(, *ˢ#" ". $ (*ˢ ˢ
%($!.(*ˢ $ * ($, Vˢ# + ," * %) .($(ˢF(, (!$ Cˢ ˢ ˢ ˢ D
&' ' ' !ˢ ˢ Oˢ ˢ 'R ˢ (*ˢL%ˢ$) % (ˢ" R (\ˢ$!$ˢ#" R(" #".O *ˢ * !+!9# '+ +!ˢ ˢ
%" *):ˢ% * #.) *ˢ ..(*ˢ(Q"(*ˢ%" * :Vˢ * ˢQ" 'ˢ $ˢF!)ˢ * ! ,!ˢ(ˢ%(..(ˢ# " (ˢ)! "# +9ˢH ˢ! ,ˢ
Q" ˢF" * !)ˢ$(' # + ˢVC * ($" ˢ!))"#( )ˢ%!P $ #(".". " *ˢ(Q" 'ˢ%",F * (!%() +ˢ% * 9
7 +ˢ ˢ #.) #

eF

d) ! + ." #."*".(.. $ + $+ *#.(% "* / ". .* O)$ O".R! (## ..("*
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% + %% *)" (, " $)(. * +)(*)$!#" C(,% R))$)($) * R $ (.
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! >'% "* R $ D %"*(" O $+ %." !$," %.(," " Q" *! , % R+ L W) (. Q
,"%)" (Q") ! !+! $!$ %$ ()" (" . % , ()) %. C + !Q" $!$ * $)!# (*"
* B4,4% .!) (%. OO 1 +)!+"* % (#. O(O'9#(..(1Q"(* (Q"(O".R(G "* %
, ' F59 * $F Q"1)(F+(F #(# 1 . * $ $?# .(, ! ($ $!$)!$O $ $F "* 9
$ * ' O%() C% + O $)".! % R+! %!O V %.(" * %) + % " .."+O") (
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. +(% V%))($%)"$+!% R (+"
8 I $ '# !O $) (B" !)! # $% %(%(9#(..(1 !# ! $(.) $ O) $ " ,
5 / "(W(Q" .!) (+ %."* $ 1"%+) * $! * $ * (' *"* Q"!+ "*!$," & ($! 9
: 2 R $ * %"* $ (, $ $ ++ $ * O R V $) ($"* LQ" * + . " O!)($ \
8 "))(&! "* O * .(, " C 7 &"&4. 4 && 1" R !$ $)! (V + $ ". %".
Q" (# ! * ! F(, $ " % , + $ ' *($ Q"! % +!. !%. ($ +) $!# R (
Q"(1Q" !%. + , F! * $ * (" * $ .O.# '%.($ " 1 $ F . *(R O)O% O
+ $," F(, 1
" 6 %."* $ (Q"((+* !+"* %(.", 3`2 * ". ! * ! , !)" (+) " %.(*Q" ! ,
@)("%(* #.".Q"((% ') $ * . (," ..")) !$)" " (,.$+ V %#($ 1Q" *". !9
) ((Q"(% (,." $+! V *(R$($ 1" Q"($ (* % # " F(" $+! $($+ #." *"*
" $(') $"$ V O(.+ %"+($ V)!$. Q" $ * ! , . , ($ ")!+ (% * !+!
F()(Q"(" $ Q"! $,(.$) ") $% ," &" !.($ V %!$ ..!) . , (# + !+ 9
) $. % %!.
!% ! : O Q" #" $ (,F"1" %."* $ (Q"(1(1(* 9#(..(* %()". (%"(*" "(!a
+ ' 4 .! % ") $!$ R)($ *(1! ," Q" V) (%. ! ," (+) ,")!$% (Q"($ Q_(
" !$+" ((+% " Q" $ +"* ($.!$R "(. "+ $ "*($(%!+ $+"* % 3
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4 - , . O , 1" 'F , $+((! (#"+ ..! +,% O(" & ! Q"($+ O$ $)
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O! ..! $! #" R($)!) * % ! 5% $ (+) * ()) ($ +!$ * !.. %)(%O 9
+ *() (!$ $!$ R $ \ + $+ * $" *)!$) +"$ V(++ ((Q"( )!$ "$+"$ ")
%")" ' (F #!%. O % +" V *")!%" 1)"1" * ($ ($ Q"($ (* %"*"$ Q"(* " !
F("% ((" #." ," , , #!%."$ 1. +"* + $+ $R %. #." *"* %"+($ #!% (*"9
(. $) #"..".* +"$ V)!) .F" %"))"* F(" "$ $ # ($+ ! $)! $(LQ"(]. 9
O \(Q" $ + " C+ . R $+1" % (* $.!)" (, () V % R! Q . , ` (!$
V "%)!$% O("* $) %.(! "*Q" (. Q"! O"+""* %))(! "* # $! ! : ! ("
$!O * + "*%#() ! ! *$," * ! , . , ($ " Q"! %(1(9#(..( )" % %!. C O(. 9
+"* (" * Z ! ,"% O ," "* %. !#! Q" F( )" (!$ " "
%)% ',G /)!$O $ Q" * ,)) .. W) %"$:$)%"# ! * % $ *($ % % !O (C+ .O
% (,) * $)1% #!% $ %(#(9#(..(C$ O! %"!. , ((Z / " % #) " O$ () ((C % %))(
% + $+)!$ "% Q"("! "$) (#." + O) (" #(") ! L$(* F) $"..." #!$+ ("
* $%" (C"%" \ $!+! (Q" % ' ((+ + * + (+)!Q""$ " ((Q"(Q"($ "* #!%
%"$ %! * . (" #." , ,"$ $. +".! + $+ %)! *#!$"$ (+ %"+! * # ,O!)($9
+"* Q" ((% (+ +O F * $ $!$% " %"# !)!# !%! (* $ % C*" ((O %
#".."* +"$ V (+ * (Q"(L$(*"$!+)!+" ((,%! * " \) * $ # ($+ ! " $ $
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% ʿ(ʿ ", !ʿ"$) (" *ʿ.!$R ."+ $ * + $+ ʿ)U . ! ʿ (*ʿ% ,($ (+ʿ ' * " *ʿ ".Q")
Vʿ$!$$ F ʿ(%# ' ($ # '. (ʿ))(ʿ ' * " * !$ʿ(+ +ʿ (* $ʿ" ʿ%"# ! ʿ# $$(C
(" *ʿO ,ʿQ"Oʿ $ʿ(. ʿO((ʿ% * . ʿ (ʿ.!$R "+ ʿQ * (+ * !+" *ʿ $ʿ%"#! !% ʿ$ ʿ ʿ
.+ + . * . $)ʿ (*ʿ+ O %()!.! " *ʿO((" ʿ) (ʿ+" * ('(ʿ+.) 1 ʿ%" %. ʿO 9
+)($ " Cʿ# $$ʿʿ# ' (ʿ+! %" *ʿ# O" Q_ ʿ R $ ʿ(Q% ʿ ($ʿ)("+(ʿ# $$' "$+) *ʿ
Q" $ʿ * !+,+ .) # ʿʿF(, ,($ʿ)!.Q *ʿ:Z.(* $(ʿ. (ʿ)(#" ʿ) O) * # L>" Q" ʿ R $9
(ʿO# ' + $ ʿ+(* $, " ʿ$))ʿ)!.!)ʿ$)ʿ% "ʿ+ .% ,($ 1ʿ !% " *ʿ4' ʿ% % ") (*ʿ !$9
R" * * ") !$(" * % !$)%(Z%" * (. Q"(ʿ ʿ#(ʿ%".)" * . Q" ʿ(.," *

ʿ ʿ ʿ#! ,ʿ(#"+ʿ "$+ *ʿO + ,(*ʿ#(".., ʿ* $! ʿ)! #! ʿ * !. ʿO ʿ * $" ʿ#.($(ʿ 3ʿ
'+ (* ʿO(.+ ʿ#(O" *)(#" ʿ. (, $ *)"1" !+ "$ ʿ(Q_(. ʿ#'$)ʿ "*ʿ# ' + $ ʿ
* (R$ "+ $ ʿ* (R ʿ (* $ʿ($R"+" * ʿZʿ ʿʿ)' ". !O%".,ʿ)!.! ʿ, $ %! (* $[illegible] ," ʿ# ʿ
Q" ʿʿ %# (,(ʿ#(ʿ "# ! ʿ)(# ʿ# !' * !ʿ# (+ " * $!$ʿ%)" ʿ()ʿ $ʿ#%(C) + $:ʿ)(# a
ʿO ʿʿ, O + * ʿO .. ʿ (* Q"(* ʿ%)) ʿ+(* $, " ʿ +" ʿ (ʿ$!$ʿ(+ !ʿ [R($ ʿ (93
* $ʿ)!.! ʿ")ʿ $ʿ# ' + $ ʿ% +ʿ (Oʿ Q"(. ʿ%". R $ ʿ $% + C[illegible]# ' (ʿ+(* $(ʿ ..(% ,+ ! *ʿ
%"# * (ʿ#(ʿ) $R $ (ʿ* $" ʿ.(" *ʿ#(" * !))"#(,($ (ʿ (* $ʿ (*ʿ O[illegible])!.!a
:ʿQ" ," ʿO ,ʿR" " ʿ +" *ʿ (ʿO + ʿ (ʿ)!.! ʿZʿ%#. $+ $ ʿ, ("+ʿZ)" ʿ()ʿ $ʿ#%ʿ) 9
+ $," Z +ʿ* $ * ʿ+ R ʿ.("+ $ *ʿ$!$%"# %(,($ F"1" +! %" * ()!..!(+!" !#W[illegible]
R " *ʿ"ZQ" $" ," ʿQ" + *ʿ# $$ ʿ +" *ʿ (ʿZ +(. ". ʿQ"(* ʿ# ' + * ʿ)!.! ʿW
$(* ʿ ʿ) * () !+(O).) ,($ C # +" ʿO ,[illegible])R)$% ʿ# % $ '1% * %ʿ)!.!) ($ # '+ ʿ ʿ
Q"!ʿ# ' + $ " *ʿ# $$ʿʿ# +! (. :)" *ʿ ʿ) Oʿ)!$O $,($ ʿ# $$ʿʿ ..ʿʿQ" ʿʿ#(ʿ
!" !#WR !ʿ# ! ' * (* ʿ!))"#(,($ C)"1" ʿ(" ʿ)!.! ʿ%" $ ʿ)("+ʿʿ# $$ʿ ʿ $+)(ʿ
$ Q" ! ʿQ"($+!Q" + *ʿ!" !#WR !ʿ)(,(ʿ (C* Q" ʿ!,ʿ)(_.(*ʿ R$!% *ʿ($ʿ!, !$R, ʿ.9
.! ʿ) Q" ʿ$ O! ʿF(,") ʿQ" ," ʿQ"! Q$! ʿF(+ $% ʿO +) ʿ* * ʿ%" "$ ʿ# '+ 9
5;ʿ(.(" *ʿ# $$ʿʿO((*ʿF(, ,($ʿ.!$R "+ $ * # $+O Q" ʿ $ʿ%"# S ," $+)! !9
ʿO(.+ ʿ) ($ ʿ+ + * .) :ʿQ" ʿʿ (* $ʿ) ($ʿ.!$R + * ' VC (! ," ʿO .. ʿ.((ʿ!,% (ʿF(C9
, ,($ ʿ * ". !)($+ + ! ʿ ($)!.!% Q"(Fʿ%!# [* * ! ((" *ʿ# F$')%Q_ #)>+(9
. * Q" F(, ,($ʿ.!$R)"+ $ * ʿ $ʿ#! +ʿ)!.! ʿ .. ʿ# $$(" *ʿ+! %" *ʿ) R $ " *ʿO%"9
! ," + O %" ʿ+ .) * $ʿZ ʿ"ʿ%() (ʿQ" * (+ * !+" *ʿ$,$$"..ʿS# $($ _ F F .[illegible]# H$9
$"$) (ʿ#!. " *ʿ1 ʿ%)"$+!ʿ (* $ʿ . ʿR $ ʿ)(" *ʿO + .) ʿQ"[illegible](ʿ&+1 $" ʿʿ %". ʿʿ(." % [illegible]
$ F1ʿ+) ,(ʿ>!($$ ʿ+))) WO$) O Q" ʿQ" + *ʿ ..)( ) ʿ% +ʿ. !$ OW+(C (* Q ʿQ ,[illegible]
)("%(* . ʿ" + %) * $%())$ Q" "$ _ O".R_ #" (:ʿ [illegible] :ʿ H
ʿ ʿ ʿ ʿ ʿ W+ $% Q" +(* ʿ) O ʿ(#"+ ((O! " (* ʿ) (* ʿ, (, ,(ʿF")ʿ#,.% 9C
* ʿʿ)(. R ʿ# ! %" ʿ% * . * ʿVʿ!" !#WR !ʿ)("+(Q" ʿ (* ʿ* (.((* ʿ _F ,.!FR .. ʿ
$ O ʿ)($ *ʿ1Q" '$! (ʿ($% $R".(ʿ .. " ʿR $ ʿ (O) (,(. ʿ+) $.) 1[illegible] *)%(,()ʿ
OQ" (ʿ, (ʿ ..(ʿ+" * ('(ʿ!,% W(Oʿ F($)ʿ$! (* ʿF(, $ ʿ:O"(" *ʿQ" + (ʿ $ * ! ʿ
[illegible] $! (" % % * . ($ OW +)! * R ʿ * F) ') + ʿQ" (%F $+ ʿ ' (+($ʿ * $ʿ # $#! <
$ʿ% * . " *ʿ(O " *ʿ%! $.ʿ!,. O($+Oʿ+ R $ ($(ʿ(+F , ,(O * \ʿ%)Oʿ " MO("..!ʿ ($ Oʿ+) 9ʿ
,(* .!($$ + [illegible] +W! * $ * +", (! * (+ * $:ʿ 4 ≐≐ ʿ S
&! !Q" " *ʿF')Q (* $ + " ʿ . *ʿ + * .S($$ + H).WW %# " ($" M) %O
V *)(! ʿ * + . +(* $% Q"1Z * . *ʿ(O *ʿ# + ," ʿ# + ($ ʿ (9% ʿʿ (1 .O(%[illegible]
O $+ + () ʿ * F ʿ% R$ %)(,()ʿF! ʿ * $.)ʿ."$!ʿ($$ ʿ F +ʿ * .. . * ʿ% ')) .ʿ* Q1 $$ ʿ
ſ F 1ʿ L# ') 9

E ˁ ˁ .ˁ Aˁ ˁ

@#]) + $ $ $ (!ˁ(, #%!)Q" % O ((\ˁ&((+ % (*ˁ .(*ˁ(O ˁ ˁ * (1! " %ˁR $))ˁ &"%. ˁQ 'ˁ, $! ˁ ..! ˁ$) O! ˁ) ' !" !#WR !ˁ# !+ "$ ˁF(, $ ˁVˁ#.($! ˁ%"$ˁ) ! ˁ#! ˁ (+ : ! ,)".(!" ..'Q"(C 'ˁ&(#" ˁ $%". ˁ(+O F"$ " Cˁ# + ˁ(") * .. %"^)$* @ ; ˁ ()) # ˁW .ˁ#"..ˁR(.. $()O ˁ# + ," Q" + *ˁ% * .) ˁ% +ˁO(.+)ˁ%! +! ˁVˁ(+ˁ #% " ˁ(O ˁ C! #")!$ # L., 1_)# +"*ˁ+ R +" * (' ((1%#($ 1% Q" 1" %. !# $!$ 1 $$) ˁ #((+ % ((O ˁ% $. ," ˁ)ˁ# (+ (#)+ ," ˁ% +ˁ $)!.(ˁ! ,ˁ)! "$(ˁ%) + (*ˁ Vˁ $)!$G C $$ (*) ! % * ".)" *) " ," ˁ %)(ˁ Aˁ (,) ˁ ..."+ #%" * ˁ ", ˁ ' * " * ˁ."G "*ˁ# '% $ ˁ * , ˁ)!$+ * (, (

ˁ ˁ / / * ˁ %ˁ * ˁ * %
('ˁ ˁ ˁ ˁ 9ˁ)ˁ ˁ ˁF ˁ ˁ & ' ˁ -'5ˁ ' %/

□ˁ< ˁUˁ (((ˁ) ((O)".(Q"(*ˁ O "*ˁ&((+ % ("*ˁ * (1! R $ ˁ)R *ˁ(#9 # ..(ˁ $ .. R ,(*ˁCˁ$(*ˁ (* %ˁ &((+ % (ˁ(O ˁ% # " ($ +) ,(* ˁ ˁO + Oˁ *ˁ)" *ˁ .W. #!$ˁ " $ˁ(. ˁ.!) Vˁ ((Oˁ$("). $ˁQ" ˁ% R"F ($$ ˁ$(O R(!9 $ *ˁ $ˁ $+ (*ˁ $ (. *ˁ$"$)ˁ $% " ˁ%:.)$ 'ˁ%"(ˁ# !%)+ !$ ˁ +") ˁ(. Q"! ˁ 1" ˁ * !+ˁ(O ˁ% ˁ% * # ˁ % ($.ˁ$"..'' *ˁ (* $ˁ)R)$ˁ)!$%#)) ˁ * Fˁ)!$ R (ˁ($ ˁ $$" * F + * .. $ * " *ˁ% ') $ % * " *ˁ " * ˁ * J . +(* ˁO + .) ˁ(#"+ˁQ" $9 [* *)(! * O1" * !+ ' !)(+ ˁ$(" ˁ +") ," ˁ + * ˁ%!. "1#ˁ " ˁ#! +@ C" * * (R$!Q_ ` % "(. O $+(ˁ $$ O) + $% Q R)$ ˁ $)>ˁ% R$ %)(,(ˁ * F ,Q$) F%O * " ˁO ˁ * ($" .ˁ 4] 1"%+ * " ,) O % * . *) (*ˁ ˁF(, Cˁ (Q" (, ..!ˁ * 9 1 (,(ˁ" (+ˁ#(")! ˁ+ ˁ(O)".(*ˁ * Fˁ)!$) + Q":ˁVˁ+ % , ˁVˁ $ˁ (,)..(ˁ '9 * $+(* % " ( )#!%. *ˁ 1")!$ * ˁ B" " *ˁO ,ˁ .." ˁ#("..!($ ˁ * * $) * Vˁ! ˁ $!ˁF(L?C)$"ˁ * . * Q"!+ˁ Q" + *ˁ% (* 'F ,") 1ˁ * ˁ!%%) ˁ %% ˁ#" (O ˁ 1" ˁ."% !G (*ˁ(++ (ˁ)!$, F!)ˁ.!)!ˁ# !#!$ ˁ *

]/ ˁ . & 7. : 405%

>> &&3 ˁ ˁ ˁ ˁ (") *ˁ (O)".(ˁ(. ˁ ($")!+ (ˁ * $! ˁ + O % ˁ# $$ ˁ# (+ (Cˁ$(*ˁO)(9

'ˁ &HGKOD # G"+(*ˁ1+"O " * ˁ"$) (# *ˁ.!$R "+ $ (ˁO 'ˁ%"# (,(C)(#" ˁ .FˁO(.+ ˁ#(O" * : "!+)" * !%. Bˁ"$) (*)" * L * Z)+"$"(' (ˁ.!$R" *ˁ (Cˁ #%()("+(($++ * DO R 9ˁ e$ *ˁF(, ,(Cˁ(.(ˁO ,ˁ ! #ˁ(>)".1 ˁ)! #! ˁ.!$R ˁ * (1! ˁ" ˁQ"(C"$) (ˁQ"("! ˁ)" * @ % * %. ˁ# !. '(C)%.)$ Vˁ, $(ˁ"$) (ˁ". (ˁO' * (*ˁ)("+(*ˁ#! R % $ " C +% ˁ)!.! ˁ (., ˁ)"1" ˁ%"# $(ˁ#(ˁ"$#(* ˁ.!$R(Vˁ, O ," ˁ .)R($," Q" ˁ#." * ". ˁ% O ˁW .. ˁ "9 ,)!.! (+ * + (*ˁ "%Q")#((ˁ O (ˁ%) ! " *ˁQ"! "$+((ˁ% (* $"ˁ $%@(ˁQ" $ 9 (+!# !+" * V ! (ˁ)(# ˁ#(ˁ ($! X $% ! O , !% #(ˁ"$) (*ˁ % * F) ˁ.!$R(O Q" (Oˁ (* $ˁ(. Q"($ "." *ˁ%"# (,(ˁ# !$(C * + (ˁ)(# #(" * Q"))(+ " ! #(9 O(* ()".($ R (* #)% (F(, ,(C)!.."$ˁ " *ˁ# -.!) ' . ," ˁ# $$ ˁ (" ", Vˁ Q"(%ˁ% $R" $ ˁ !.! ˁ +" * ˁ" ˁQ"!+(* * !+!ˁ%) (*ˁ% ($ $," ˁ)!$% (ˁO + 9M $ " Cˁ! * $ ˁ+ $+ ˁ#)$$".(+! %" *ˁ * R ˁ (.(" *ˁ # $$(ˁ)("+(* Q"%ˁ R $ ˁ #(C$ "$ " ( )!.! C % $R".'ˁO ,ˁ& 5ˁ +) $ ˁ# $$ ˁ * R ," ˁ)!$% (,($ ˁ# !$ ˁ Q" + *ˁ#(ˁ%"% +'ˁ "%!ˁ)!.! O%"# $(ˁ(" *ˁ 'ˁ%.(O+ˁ%"%) :ˁ)("+(ˁ% # *ˁ(" M!+!ˁ# $a $ ˁ%"% ˁ (ˁ# (C+ (1ˁQQ(ˁ * $" ˁ+ . R $ ˁ+ % $' ˁ# +! ˁ("@ˁ! ,ˁ# $$".(ˁ (ˁ R $ ˁ + % $ O '# QQ)$!$ˁ#+ ,1%C%"# $(ˁ#! , ! #! #(ˁ%",ˁ# +! ˁO ." ˁ , @Q" ˁ * 9;ˁ $ * " Qˁ% ˁ+ R " Qˁ1(5!ˁ $% R$ ((ˁ(ˁ#." * ". ˁ(* Q"(*ˁ % O ˁ% (* $, ˁ)! 9 ($ # $$% O $ * R $ (.,(Cˁ (F % +ˁQ_? G(. # ! ' * (C % R (COˁ Vˁ (%" *ˁQ" $9 Q"Oˁ(" ˁ% 'ˁ $ˁ 1$RO". ˁ.(," ˁ#("..,ˁ.!$R +) <ˁ, $ (W + .)) ˁ"@$) (ˁ(Q"(,(1OQ" ˁ $.(! *ˁ ' * O (# *ˁO + :) R(F % * !Q" ˁV,C %# $+ $ ˁF(+ˁ%)" ˁ ()ˁ ((ˁ% (ˁ * (% ".ˁ)!.."* O# (+ (* ˁ+ % # ,($ ˁ 'ˁ!" !#WR !ˁ((+ $ˁ F) ˁ)("+(Cˁ# $$(ˁ, $]ˁ# !9@ Iˁ + ,($

ˁ ˁ)ˁ %ˁ ˁ ˁ ˁ ˁ ˁ ˁ ?FV

2. ,($ˁO ." ˁˁ Q" (<ˁ $" ˁ% * ˁ * $ˁ% # *(" ˁ[L` !ˁ"$) (ˁ +$R ˁVˁ . (<Q" 9
+ *ˁ# ! %" ˁ$ R%` % +ˁQ"("*ˁ)' * (ˁ(+ˁ"$) (.!$R "+ $ *ˁ $ˁ! ,)*ˁ)!$0!." ˁ
) ($ (,ˁ"$!+"* ('(ˁ.(ˁ $" + * ˁ0 .. ˁ# (+ (ˁQ" ˁ# ,$(ˁ#(ˁ)!.!$ ˁO + ˁ%(9
" ˁ %#. $+ $ ˁV . R($ 1ˁ#($ ˁ $% (0ˁ# $$".("$1ˁ Q"(C ($(%)(1 * (1)+.." $ 9
R"$ ˁ* (R$($ ˁ%($ 0)$"% (*ˁ ! !(0)".'ˁ)! #! ˁ(++ $:ˁ% # $(ˁ ,ˁ (%"F ˁ#(ˁ
%".)ˁ)!.!$ ˁ (%ˁ $ .. R ,(*ˁ ($ ˁQ"!%+(*ˁ .)!$.# +! Q" ˁ% (..(ˁF(,)$ˁ
(. (*ˁ%"# (. ˁO %" ˁ ' * " *ˁ+) ". (*% (ˁ ˁ [illegible] [illegible]

3 ˁ ˁ ˁ ˁ ˁ ˁ

O[illegible] ˁ ˁ ˁ R ,$ %.1%($.% O + ! *ˁ $ˁ . (ˁ %)(ˁV ˁ *)() . ˁ!# $+ ˁ(! ˁ
Q"(C&% ()! ˁ$+$ˁ# !+")(ˁ1 ! Q" ˁ O((ˁ * (R$ "+ $) ˁ Vˁ)!.! "*ˁ V<((ˁ 95559
+ %% $) ˁ" ˁ 'ˁ "*ˁV ˁ !)! "*ˁQ" (. Q" +ˁ+ ˁ O , " ˁL) # $ $ ˁ."G
", (!$," # %#)_" $ % Gˁ V #.(Q"! + ($('# $ (+!) ˁ ,") F!$ˁ
$ %%Q"! ˁ %%(ˁ(" ˁ %)(ˁ * ,(ˁ !R$! ˁ%" .. ˁ * F ˁ# %"(+ !ˁC(ˁ !) ˁ ($ˁ
Q"! ˁ !O" ˁ , ˁ%", * $ %% (ˁ ˁ ˁ I
ˁ !)! (_ $: ! $.,# $ +$)+ . R " VC ' (+ " +),Q)ˁ O _$ˁ
R $)! * ($ (" % ˁ/ ˁ .W%.)ˁ .+ !O($+!ˁ ! !$ $%% Q" ˁ , "*ˁ '.9 #* ˁ& 9
* ˁ $ F!.!R 1 +)(O ˁ .. $ *ˁ#F .!.,#F) ˁ$ F!+!ˁ (+ + ˁQ" +Q_ +ˁ(+ˁ&%% (9
)!Z"*ˁF %%!$(*ˁ# $ ˁ# ! % ˁVˁQ"("! +) *ˁ+ O %(ˁ ! "* ˁ %#)) ˁ+ %) , ˁ ˁ)9
+) $ ˁO +)!$ 'F , CQ"("*ˁ+" # ! ˁ $(' * (C % $ Vˁ + O" Fˁ * (R$ "+ $)ˁ
%"# ($ 1ˁ (ˁVˁQ"((!."*, 'ˁ% $ ˁ * (R$ "+ :ˁQ" $ (A ' (% # * (ˁ2O(O($!$(
Vˁ+) * (ˁ* + !) ˁ%"$ ˁ * (R$ "+ $ ˁ)("+(* Q" ˁ , O *ˁF(, ˁ %%. *ˁ $+$ˁ (+ +ˁ
+$R(*ˁ " ˁ %", . Q" $ ˁQ"(+FR ! ˁ)("+(ˁ%"$ ˁ# (+ (Cˁ>+ + * (ˁQ ((ˁ , O *ˁ
(* F(,))("+(* ˁ G
& +% * ..(*ˁ . R($ * 1_ %#)) 0 * Q"(# 0! ˁVˁ $ ˁ# (ˁ%.(O(ˁL (, ˁ1)(ˁ
O +ˁQ"(ˁ(.(ˁ++ %" * Q" R"$ ˁ " $ˁ (*ˁ (Q"($ˁ)("+(ˁ)(". (ˁ$!$ˁ%) $. ˁO + ˁ
* * $ V)!$ *ˁF(, !ˁO O)!.! ," ˁ# %.(* 1(Q" ..(*ˁ #.((ˁ %. (, ! % Q"(*ˁ
>!($$ ˁ) " ˁ)(#9' 9_ % ! (C% (ˁ *)($(C O "ˁ((%%. ($ ˁ(## ..(ˁL) , ˁ .)9 $. /ˁ
($ˁ.0) *ˁ (*ˁO + ˁ* * $ ˁ $ˁ ( ) ˁ (C%(ˁ , % ! % ($(:ˁ (+ˁ 7(%%", "*ˁ %% (ˁ $% (ˁ $ ˁ ˁ
$$(* ˁ " $ˁ (*ˁ "R+"$ ˁ ((O! "*ˁ (#"+ˁ Q$ (ˁ ") "*ˁ 7 ($ % (* ˁ, (ˁ(O ˁ
)1" ˁR $ ˁQ"(ˁ#!%% (ˁ * (R$!ˁ+")ˁ !%)! 1 (_*ˁ+!$!ˁ* ,(ˁ . Q"(CO +ˁ #)) ˁ
L# ( ) (* ˁQ"(ˁ.. ˁ(., (ˁ) %%([illegible] (ˁ %% VC+) * (* Q"((* Q"' W F !)F.! ! (* Q ˁ
) %%((\ˁ * F ˁ (*ˁ +$%# :.(C " * ˁ#. (Q" ˁ(. ((,ˁ #.+ˁ $!$ˁ+ %) # (C ˁ (* , O ! Oˁ
)("+(# (+ (V * (1"L)".+)! #! ˁ*!. ˁQ"(*ˁ * $! ˁR $ ˁQ"(ˁ.!$R ! ˁ)("+'ˁ
$(ˁF(, $ ˁVˁ !.."*ˁO)." ˁ ! Q" ˁ ", !ˁ(" ˁ(!ˁ! $("* :ˁF" * ($(ˁO ,(ˁ '('9
*) ˁL, . ':Q" ," %% * . *ˁ"$[illegible](*ˁ. (," ˁ ! , . %. * " ˁO ˁ&F . ##_ ($ ' " ($+C9
.+ R+$+ " ˁQ"(*ˁ% # ˁ)()F $$" *ˁF" (($#ˁ* ! ˁ%"% !..) ˁ("+ O ˁŌQ " * (, ˁ(+%%($ 9
," ˁ / (..)+ˁ% * !$ ˁ)! * # ..(" ˁF!)ˁ * !+! : Oˁ(' ˁ + ' = 'T/ +ˁ % ˁ + ˁ#%% ()) ˁ 9
+ N% +ˁQ"!+ˁ * (R * " * ˁ / (..)+ˁ (*ˁL * !F ˁ%",) , (ˁ ..)!ˁ O * QN (N$ (!$)ˁ
'+ (ˁF("+ˁ+", ˁ (* $ˁ (ˁ +!+(ˁ .ˁ$ & ! ˁ+ ˁ '!& ˁ ' ˁF!)ˁ % ˁ+ˁ * (R$" * ˁ%(9
"" $ˁQ" ˁ* ˁ(+ˁ +)$+" * ˁ# !O!)(:ˁ ..(Q" ˁ ,(ˁ " * Oˁ) +ˁ # ˁ . , . , (H :ˁ
ˁ $ ˁ . Q"("$(* &% () # * %#)+ * (R$ "+ $ 'Q"(.) * (#!+ ."% %ˁ ˁ
ˁ%% * (*ˁ 7 ! * $(*ˁ ((*ˁ+ ˁ *)" 7") *ˁ !W(*ˁVC$)F! $%) * ˁ% .) .% * ˁ * 9 655%003%#4
!# ' ˁ# Q"1 *ˁ 'ˁ !..(+ (ˁ ') +)) ˁ)" ˁ.($ ˁ#(% * $ˁ# $F(*ˁ)+.+ ˁO((ˁ
Vˁ . R($ (ˁO + ˁ$#$ˁ* * F C)$ *ˁ.) ˁ! * $ ˁ%)%)ˁ# $$ 'ˁ)! # ˁ)R $ ˁ ", Qˁ)!9
ˁ.! ˁ).)$ˁ $% + ' ˁ)("+'ˁ (* $ˁ# $$ 'ˁ ˁQ" 'ˁO(.+ ˁ# #. ' ' ˁ#(+ˁ ", (ˁ) ($ 10#(OOˁ
)(". ' :ˁ(ˁQ" 'ˁ $ˁ +! %!ˁVˁ(. ˁO %%)!.! ˁ 'ˁ%.(O! ˁ ,%! VˁO% + [illegible]Q" ," ˁ)' ". " ˁ)!G
.! ˁ (*ˁ)! $ * ' " C)(#" ˁ))" * ˁ!)".! ˁ(., ˁ)!.! ˁ (% $",% Q! ˁ. $ ˁ$ R Q_) * 9
(+ * !+" *ˁ & "ˁ)(#" ˁ+ % $O" *ˁ (:ˁ#% ()" * ˁ+_ ˁ% * . ˁ %% ˁ)# Q % (#_Dˁ$"%."%$ˁ
"+ ! * + %) # " * ˁ *) * $ (ˁ#! %+(O ˁ $$(* ˁ(, ..(ˁ %%"% %.% * (7") OOˁ
$"$! * *)R $.) *ˁ Vˁ7 ! * $(* ˁ+ +ˁ / # , [ˁ([illegible]+),ˁ+ . O ,(% ˁ # ˁQ"#)1+ * OQ" ˁ
ˁ)!$).(O ˁ '#(("% ˁ ..(*[illegible]%", % Q" ^ ˁ$)ˁQ" $Q"(*ˁO % % ˁ 1"%ˁ($R ' O
) AQ" $ * ! %" . " * (#%O () .! W# . ˁQ"(+(* .(, [illegible]Q (W + , ("$ˁ
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% "*' %.'% R+"*'V'%))"*'% , ')"[$"')(#9+ !* "'+ *')!$% *('.(9 h . '
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,. O(*"'(Q"(*' $'Q"('% "*' ' $+"*'% ("')F(.W, '% R+($3VC%))(*' %.'1 ' '
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% " * %) V)F(.W, $ *)+) $(%"$ * (R$ V(+ ((, . %)+" :05)1($
.[V+ 0 % 5R "+ * , " * + $ " &. $ " % ! (C (" (. F, ' ' ' 0)(# 0 $"9
* (* ". + %) ! ,0 (+F" * ($! "%" V(. (#. (Q" $)))%.(* +)(1"
%()". ((* + $.) # !+ !# * " * .. " * # (* $! V Q"(. (F C
1" L ", R $ W + .) \. R(%))(% $R H * +((.!#) (.. ("$9
" V(+)(, (R $(" * #"% ".(%Q" ! ")! #!)" *) 0 V !. ! * W ! (+ R$
0 , %) ! " () !C * (+)(, * #(!$W)F (+ R)! " * @ V# WR ($. $!. %
V % * $(" * # !%."0 (* #!% (0 .. , " (")" * W.!3 &.(R Q"!Q") $," 0 $!
+ ." (V " * * W F(%",(+(9 V)!$+W.! * (" () !# !+ % &!+(R (Q"!Q" .. (
. $,")!$0 $ $," (+ * ' (($R" $ % %)" * 0".$ (* (' * % !% ($
& !# $(")!$ (. $ 0 ((, " * $ * . ((* ! F! +( )! * # %) F".) " * Q"
% # $ (/ $ # !+ % %($(C * !+! (%# .(#(". .# # @( ) #" ((* $)! * * F+(!
1" $ FWR *#.(% ! (+ #" R($+(0".$ (% % ".(Q" V ! * $ *)(.." * !+ $+" *
3 (% !% ,")($) ($+((+ $" &. $ " / (. $" $ F () (+# .,$ * 0(.+)
)! * * $+(% " * + * Q" ,+ (+ F! * $" * " %" * 0(.+0$) %.(" * " $ Q" ,+ % * 9
+)(* $ " * (+ %))($+(+ %."C:"!$ V:.() W* (!)".! " * # % ($.% * " * , !
(" * + 7 % ,." !$)!$ W 0%) , % .(* $(R$ ($.() $1 +($ * (* 1"
F" * + (* (,% * $+! (.0 # !%."0 # !+ .. C # % * (" * +W. $ 7) * !
#! ,+ % * #.) * + %()". (+ +W% $)! % " " .() $ Q" !+ $1 +(% $)($+ $ (% @
% (R * $ (# (, 1", Q" (% " * * (1! $ %)) (* .(+ * # * 1Q" (* R$
.(# + .$10 . '($+ (.. ($" " * . Q" " " Q"((!$ $ (.0 # !%."0 .(+
D 205G " $+" * % % , % % , (+% C$)$ * .($ % , $Q) (% +# ,%."0 !)! * $ 1+"$1
%)" * Q"(((Q"(C #( )!Q" 1", (+ + * + (C % + $ * (!$ % $ $! '(% ',
#!%% $ % , ," Q" ,")!$1"$+" * (.0 # !%."0 " * V %)($+ F .(* $(##% (
$)

, '   / W ˢ 7 ˢ   ˢ   ˢ
$)ˢ+"*ˢ.()ˢ)!Q" " 1Q"($ˢ.(#+) ˢ &("."ˢ% ˢ + *ˢ)"*ˢ /(.)$!ˢ+) ˢ% ˢ#! _$)$ˢ2G$ ˢ
)"*ˢ() ˢ() +* ' "*ˢV'(+ˢ.(OO! *ˢ +(+"*ˢ* %))! 1"O(ˢQ" ,"ˢ("% .!$R!ˢ
1(*ˢ *#! ˢ ($ ˢ%."' "$ C'V' %%)(" * +"*ˢ %% ˢ(+O %"ˢ%"*# "*ˢ(),   "*C
+Q"(*ˢ   * ˢ $ˢQ"(ˢ ' $+."+ˢ%ˢ)($+ $ˢ%   "*1ˢ #! (*ˢ%#. $)))!*#) :ˢ)F!. a
(ˢ (! ,!ˢO '(V)! . () ˢ% !*()F!Q" ˢ '!." ˢ 7 !)! + ˢ)(#1 ˢ+ ˢ ", R $ˢ%   ˢ
$"* (Q"(*O $ˢQ"()($+   %   "*ˢ $ $+"*ˢ% ˢ #! "ˢ)! .) ˢ+W% $) ˢ. $!9ˢ
% ˢ)F!. (ˢ.(,! ($,"ˢVˢ% !*()F!ˢ+%,." ˢ "' . (ˢ) , ˢ   ) "ˢ+ˢ#(% . ˢ(R $ ˢ ' ˢ
(+. $ ˢ !,% "+ !$ ˢO(.+ˢ)!*!O!+ C $S% $Q" # (C% ($ L. *"* "$ˢ   * 9ˢ
+ "*ˢ(Q"(ˢO $"*ˢ("ˢ#+)(1ˢ$ˢQ" ,"ˢ%   "*ˢ '   *O"*O   ˢ# ˢ$ .O#ˢ+ ˢ%" (# (:ˢ   <
O (Q" + *ˢ ˢQ"ˢ% ,) ($)ˢO $"*ˢ(_ *ˢ .. ˢQ"ˢ% %ˢ ˢ$!$ˢ.(,! ($)ˢVˢ *,) .. ˢ
* Cˢ%   "*ˢO ,ˢQ !+ˢ % $R"ˢ+ ,   ! *, *(% ˢQ"L6ˢ$! ˢ)F(.W, *ˢO!)(*" :ˢ"ˢ
' 1_   "+!   *". .!) #(ˢ   ,(%")! . () V.   !% WF" "*)!$%   ˢ("O+ˢ!   AGˢ
%ˢ) ,!$"ˢ* +)"ˢ   ($ ˢW "% %. *" (Q"(*ˢ (.W,A((*ˢW(.+)! * * $+(ˢ   F!$"ˢ
O ˢ"*!) ˢ(+ˢ".) (ˢQ"!Q" ˢVˢ+!.!) ˢO %)(Cˢ# ( ) #. ˢ%ˢ% Q_ $ˢ% ˢ 1"ˢ"% ˢ   (% ˢ
$ˢ   !$ $ $)ˢ+ %   !ˢ(R $ ˢ (+ *ˢ) , ˢQ"   / (.) "ˢTO("." ˢ .."+(++ $ ˢ% 9
%"*ˢ $ *!+ (! ˢ *".   "*ˢ%"'"ˢ.%   ˢVC)!$) #* %%%O W%#) ((ˢV:#($! ˢ)" (9ˢ
. ˢ#   WR ˢ !)".! "*ˢ V:#(.# , ("*ˢ(%#   (,"ˢ * +   ˢF(1*! F! +) ˢ ($( ) ˢ
#"   %) $ .O"ˢR $R O ˢ("' . !ˢ L ˢ#!+(R) ˢ)F   (R) Q")%" . * %. ˢ(.!#) (ˢ)ˢ9ˢ
#.   ˢ   O*ˢ $O   ((C(Q"(*ˢO ,ˢ $ˢQ"(ˢ)($+ $ˢ%   "$ˢ   % $+"*ˢ% ˢ(.Oˢ# Q9ˢ
%"   "*ˢ%%   1) ˢ $O   ("* ˢVˢ# ,+ %.ˢ(.Oˢ# !% "O !ˢ $ˢQ !ˢ) ,"ˢ $+ R %"ˢ R 9ˢ
" ˢ(Q" ˢ   (*ˢ+W $ (C . $ ˢ "*# ,"ˢ" . *ˢ Z 3ˢO $)".ˢ   .('(!$,"ˢ
Vˢ+ , . (," ˢ 'ˢ   ( )) ˢW   ˢ F)+)ˢ#!   ,ˢ("+.! 1 (ˢ%   , ˢ%   ˢ#".O)*ˢ   &   ˢ
)"*ˢ   (# !ˢ% *# "*ˢ ˢ *,) .. *ˢO   %)"."*ˢ !, ! (ˢQ"!+ˢ   (*ˢ   ,%" ˢ*)+) ˢ
(% !   (ˢ)!$. *(ˢ(+) $ ˢ*". +N '#   )$ (ˢ)! *# !,(ˢ(+ˢF(C !K F# +   )!$a
%   +ˢ(Q" ˢ(+" $'ˢ%."'" ˢV ˢ *$O!+ ((ˢ * $% "*ˢ#" R(!#   ˢ   ')ˢ   (% ˢ   )9ˢ
(# ! (+ *ˢ(+ˢO   ,"*ˢ%)Q"")"ˢ % ˢQ"(# !#) ˢ   # $+(ˢ$!$ˢ+"'   ˢ   W) $$(ˢQ   "   ! 9 ˢ
Q" ˢ# ˢ!*$ (ˢ (% $ˢ%)Q" " ˢF ˢ (* $ˢ(++ $ C(Q"(*ˢ $ˢQ"(ˢ%   "*ˢ   % $+"*ˢ% ˢ#9ˢ
$(ˢ#(Vˢ O)$)"."*ˢ%"(ˢ# !#   (ˢVˢQ"(. ( )ˢ * ($ %)% (!, ! (Q" O . (ˢ
(Q"(ˢ%"# %."! ˢO $)".ˢF *!   ˢ(,%"* $+ˢO *ˢ !, $ ˢQ" ˢ(##   "*ˢ+   ) "$ˢ
O $)".ˢ! %) "*   .('($+!1V $(" (. *ˢ)(.!)1$ ' $R""$:ˢ%   "*ˢQ"!Q" ˢ!,ˢ
% R +"*ˢVˢ%))"*ˢ%""*   *#   (* $ "* ! %) O $)".ˢ)!   "R(!$ *ˢ1"O(ˢQ" ˢ
R $ (! ˢ(##   " C !, ! (ˢ   *ˢ1)" ˢVˢ   . Q"(ˢ $!   ˢ#(Cˢ$(" (. *ˢ)(.!9ˢ
(1"O(VO ..! ˢ   ˢ (!$)!$+ $%(VC%   * (" (+ˢ!,% "L% !$ ˢ+%.,.O $+(ˢO   ˢ
(+Q"   (M (* !,)(".(*ˢ. $ *ˢ(,%"*   ˢ   R $) (O(*ˢ%()". (*ˢ%!   !   *ˢ   ++ ˢ
F"* +   ( ) * Q"' *# +   ˢ(,%"* $+! Vˢ$(" (. *ˢ)(.!   * ˢ(+ˢ +ˢO(.+ˢ$) % (*ˢ
(+R   R($+!C%ˢO   ,ˢF!)ˢ."(ˢQ"(. ( )ˢ$!$ˢ# '% (ˢ# ˢ()) + $ ˢ +ˢ(R ˢ   >5 ˢ!$ $ (ˢ% $ˢ
O)) $'ˢ$ˢ%)"$+(ˢ#(ˢ& * ˢ   + *ˢL)"$+!ˢ   ($!$)ˢ%   "*ˢO(.+ˢ)! * * $+(ˢ(+ˢ
) W% # .((#!%   (((ˢVˢ#!+(R (* ˢ(Q" ˢ)"*ˢ(!ˢ   "* ("   ," Q")ˢ *#!% "* ˢ%(9ˢ
$ ˢ($ Q"'ˢ ˢ("   ," ˢ%." $ ˢ*   +   " C" . ˢ   (*ˢ(+ˢ#(.# , ("*ˢ(L#   (Vˢ!)".!a
"*ˢ $R".(C(++   ˢO $"*ˢ $ˢQ"!ˢ +   ' $+"* ˢ%#. $ ˢ(#!%   * (1ˢ% ! $()F ˢ *!.. %)(9ˢ
!$ˢVˢ+ , . (ˢ)!$%)   )%"# %."(*ˢ"   ˢF"* +   (*ˢ(,.) $+   )ˢF'*!   F! +   ˢ9ˢ
%))(ˢ 1O   ((ˢ(.Oˢ11 !%."O (ˢ` ˢ+W. $)   (ˢ%%   ˢ($ˢ *!.. %)(!$; ˢ $O!."$ (!ˢ" 9ˢ
$'%."'"   *F !+)   Q")ˢ* $%   "! "*ˢ#" R(!$," ˢ " $ˢ(+ˢO $ *ˢ# !   ($+(*ˢ
/ !$%   ˢ   (+ $" ˢ   O) $$(ˢ   . ˢ(, , (ˢ   F !   'Q" $! C(Q"(ˢ $ˢQ"(ˢ%   "*ˢ   % $9ˢ   .   ˢ ˢJ
+" ((.O"*ˢ%%   ˢ*   * , (ˢ !, ! (ˢ%ˢ (ˢ.(O $ " ˢVˢ. $ ˢ+!.!   ," ˢ(Q" ˢ(#!%   * (9ˢ ˢ
,")!$+"   ˢ   .,")(% ˢ   ˢ# '#((ˢ"%"*ˢ)!$%   (ˢ .. ˢQ" ,"ˢ%()   ˢ %ˢ+)!.! ˢ   !3ˢ
Vˢ#(.. +(ˢ(Q$ ˢ)! #! (ˢ# $R" %()   ):ˢQ"!+ˢ()) +) ˢ#" ! 9Q" (ˢ   )"#%) ((ˢ%($ (ˢO ˢ
$R" %   ˢ   +   *ˢ%   ˢ   %   "$ˢ   .]((O " V %()ˢ   ˢ   ˢˢ   ˢ   O
(+("$ $ ˢF($)ˢ*((*ˢ   !   )ˢ*)+)ˢ<O '(,   ! ˢQ"($(!Q   + $(ˢO)9ˢ% '   ˢ
>C   (+ , * . (ˢ%) #.   "$ ˢ   ˢ *,#.   Q")%) ...O(.+   "+   ˢ   9   !,   R " R ("$ˢ
)   ˢ%ˢ+! * $" ˢ7 !+! ˢQ" +ˢ% $R".ˢ+ ' $ ˢ   %   (ˢ$ ˢQ" +ˢ+ ˢF()ˢ* ((ˢ# '   %*%9ˢ
(" ˢ@ˢ   ˢ   () (* ˢQ" (ˢ$!$$".. ˢ+ . R $ ˢ   ˢ())" (,ˢ+ ˢ% % ! ˢ 1" ˢ"%"ˢVˢ $% R$," ˢ%(9   ˢ ˢJ
)"   (," %) #.   "$ ˢ " $ˢ   (*ˢ+)ˢ)F(.W, ˢ   (. ˢ+ ˢ   " $! ˢ* +)" ˢVˢ   (+*(.   ˢ
)". (ˢ)(#   ˢ+ ˢ   !ˢ(R $ ˢ   ˢ   (* $ (ˢ   %))(! (*ˢVˢ($"($,   *ˢ%()". ( )$ ˢ
> (,   O   ˢQ"(ˢ. $ ˢ!,%   "+ !$ ˢ(# 1"$ˢVˢ)" ($ ˢ+W% $ ($1ˢVˢQ"!+O ˢ(.Oˢ# !%.":ˢ
O "#ˢ%%"$ ˢ $ˢ) ,!ˢ(" ˢ#! "ˢ%"*# (CO $"*ˢ $ˢQ"!ˢ%   "*ˢ%ˢ#"ˢ   ' $+"*ˢ% ˢˢ%)$ ˢ
!,% O !$,")!$O $ C"   . Q"!Q" ˢ.()ˢ $ˢQ"!ˢ)F(.W, ˢ)' $+   ˢ% ˢ   "..;ˢ   ˢ) + ˢ
%   " ˢ1ˢ# '   Q"(*ˢ   +(*($ ˢ #%!ˢ#! $! ˢ   (ˢQ"!ˢ(,%"*   " ˢ   ".."Q1%O[illegible]   (.."*
", Rˢ (*(R !,$ ' "*ˢQ"O*ˢ%   "*ˢ# '   #" ˢ%ˢF" $($!ˢ%($R" $ˢ%!   ˢ $% +"*ˢ
Q"(. ˢ6   (" ˢ%)'#!. "*ˢ   " Oˢ("ˢ* +"..(ˢ)   O $(ˢˢO .!1 !ˢ!. O("$ O+ˢ()   ˢ $
/))ˢ éˢ   Q"!

ˁ ^ ˁ 7 ˁ D

Q"!(."* $*() ("$1$"$R(" ˁ ')%) , ˁ (+$(. ˁ !$(R$(!(ˁ +F%.!ˁ) FO
% *!% '(R % *!# *!1(Q" ˁ *(R$ˁ%) ˁ.!)!ˁ(++ ˁ) (%."*ˁ.$ "*ˁ#($$"*() ˁ
V)(. $ ˁ() !ˁ $ $+"* $Q"!)F(.W, ˁ% (R* $" (ˁ ' $+" $ˁ% ˁ# ˁ*"[! ˁ+ ˁ
!,% "+ˁ%#. $ ˁ R !$ˁ (#!% "*ˁ(+* (, ˁ)!$% ˁ)F(.ˁ (O!$(!.(ˁ., !ˁ
Q" *+ (.$ ˁ $% #% ˁ "*ˁ$Q" ˁ% R+"*ˁ Vˁ%))"*ˁ % O(*ˁ!,)(".(*(+Gˁ
% $R ˁVˁ)!$% #(C(Q"(ˁ R "ˁ $ˁQ"Oˁ% "*ˁ ' $+"*ˁ%" (%+)*ˁ%()". (ˁ!, $ 9
, ˁVˁ) (ˁQ" ,"ˁ% "*ˁ %ˁ# '+ "*ˁQ" (ˁ(Q"(ˁ 1"ˁ%()". (ˁ $ˁ!ˁ)# % ˁ/(9
. $! Q" %) , (/"(* $.))#)*# (* $"*ˁ Vˁ%()". (*ˁ ("*ˁ "*ˁQ"(ˁ
$# (*() (. OO% (")!Q" O # !# (ˁ + *ˁO ,"ˁ#!..) ˁ Q"(ˁ R "ˁ $ˁQ"(ˁ
% "*ˁ % $+"*ˁ% ˁ("ˁ)F([illegible], ˁ(+% $R +)%."' !$ ˁ%% ˁ "# " ˁ *#!% (ˁR." $(ˁ
Vˁ)!$.,.+(ˁ (" "*ˁ#" ". (*ˁ*((*ˁ($ Q"((*ˁ(,%"* C% ˁO .ˁ)F(.W, ˁ)!,ˁ
#(.# , ("*ˁ(%# (,Oˁ# 2N+ % *()".(* $!)".!ˁ !.. ˁVˁ.('(ˁR $R O(ˁ(+% $R ˁC
#($$)"." ˁF!)ˁ#".O ˁN #(D%+ˁ *," 9 V $ˁ" + ˁ ***%." %."'"*ˁ%% ˁ+ *ˁ
(% ($ˁF(*! F! +"$#ˁ.($R .$!. $ %."' ," C #".O ˁ()!$!ˁ (*ˁ(+O %("COO 9
$"*ˁ $ˁQ"!ˁ % $+"*ˁ% O* 5$+ $ ˁ(")F(.W, ˁ" . %ˁ $. $ ˁ!,% "+ !$," Vˁ
O $)". *,).. ()V).% !$ 1$!*$," Q"!Q" + %."' !$," ˁ# (:) #" ˁ, . !9
% ˁ)!$O $ ˁFW+ !#) 1" $(C% ..) + !)1" Q" ˁ%."'"ˁ $O!."$(! **!+ ()!ˁ* $9
R& $ 4ˁ % "*ˁ# !%."O !ˁ($" Q" ˁ# !) + $ (Cˁ (C)ˁ (O!$(!.(ˁ)!.(" ˁ .! $ W1ˁ)F(.W, *ˁ
$ˁ #. $!,% "+%!*," ˁO(.+)!** F+(ˁ(Q$)ˁ (*ˁ(Q"(*ˁ $ˁQ"()F(.W, %" ˁ% 9
7 % $+" ˁ (F!.!*'"ˁ $R.)"ˁ% ˁVˁ)F(.W, ˁ"% *ˁ#." *"* ' !.. (Q" ˁ(" !V
(R $!ˁ(+ˁF"*($! ˁ"%"ˁ# (% ˁQ" (ˁ%)" (*ˁ, $ ˁ % ˁ# !% ˁ* (.. ˁ# (C% ($ ˁ
. (ˁ+ % $+ $+#(,ˁF ˁQ"ˁ(% +"ˁ#% ˁ $% + ($ " ˁC " (*ˁ ++"$ˁ."% (*ˁ .#",.)(ˁ
)!$% O($ C# ˁ. ()(% R($" *(. + % $+"$ "ˁ, !$ C $[illegible]!*$," ˁ*)F($) ˁ(," ˁ
$) %.((ˁ%"$ C ˁ $ *ˁ)!."$ "ˁ(R ˁ 'ˁQ" ," ˁ(. * $ (ˁF(, *" ˁVˁ*(1! ˁ%()". (ˁ
$ +)(!, $ $ Q"(*ˁ(. "+Q"!+. ,) * (.."*CˁQ" (ˁ 1"ˁ%)!, ˁ+ %))(ˁV ' F"(1
%#. $ ˁ!,% "+ !$ ˁ !.. ˁQ"(*O ˁ(.O" ˁ.",)(*ˁ%% ˁ (* %ˁ.($R" ˁ (*ˁ) (9
/ " (+ˁ#. !%Q" (. ! ˁQ"!Q" "%" ˁ" . % ˁ (ˁ! $$ (ˁ "+ " .. ˁ $R." ˁ /". .9
" ˁ (.) " ˁ $ˁ)" (ˁ!,% "+ !$. $ ˁ)F(.W,)!,)(+. $ *(,!,% "+ !$," ˁ
., ($+"*ˁ# !# $(ˁ1" ˁ +Q" ˁ*(R$ˁ%) ˁ.!)!9# $ ˁ &.((" ˁ)(#+ˁ !ˁ
ˁ%Q"(*($Q" V ", R!)F(.W;, ˁQ"!Q" ˁ 1"%+) ˁ%" *#) (* $ ˁVˁ%()". (C
.)!, 1" # (#(((% " +) Q" $Q" ˁ%) "#".ˁ "O $S (. +!ˁ%"*# F #(ˁVˁ.)$ $ˁ
(,ˁ,,% "+ !$," ˁ (*ˁ $O (ˁ., ($)ˁ ˁ(F(" ? .O( )" ˁ% ˁ ", R $ ˁVˁ Q"(9
, & * ˁ% (%+ *ˁ%()". (ˁ ," ˁQ"(ˁ)F(.W, CF! "*ˁ# #((! "*ˁVˁ $ˁ#!.. $ ˁ +(+!9
"*ˁQ"!+. , $O (ˁ!,% "+ !$,[illegible]" ˁ)"*ˁW $!9 #+!ˁ%"*# "*ˁ* + " C + *ˁ
#".O ˁ'W. $!ˁ ..W)F$!ˁ) *ˁO ,(% ˁ%"))!ˁ ') #"ˁVˁF'.$! F! +," ˁ *#!% " (ˁ
)" (C(+($"*[illegible]# ,) + $ * #]) #" ˁ()((ˁ)(.+(ˁO $[illegible] ", ˁ(+% $R $ ˁ%"# (ˁ% 9
7$ "*ˁ)($+ $ ˁ(%." ˁ%"$ " ˁ. "ˁO(#! ˁ ') #" ˁ" . % ˁ[illegible] . * $ˁ * $" +).) # (ˁ
#".O)F(.W, # (C#((!$ + * + (*ˁ 1" ˁ+ (, $(*ˁ)"*ˁ%())F(!ˁ !%(!ˁ*.)) V ˁ
1)1"$!O)".!%"* ˁ1", (+# !F , $+"*$ # (O F"*! ˁ)! ## ˁR $ $%" 1
..! "*ˁ $ *#" + $ *ˁ( ) VO $)". F * (*ˁF"* + (*ˁ ˁ%))(ˁ# ' $ˁ)')9
($ $(ˁ#(ˁ !,! (ˁ1)"% $% *"*ˁVˁ . Q"(%#(ˁ(+ˁ *# *ˁ +") ˁ# (ˁ
. *ˁ%ˁ#".O ˁ(++($ "ˁ(!*( ) ˁ%#) 1%() ˁ)!.! *ˁ * $+(, ˁVˁ.") +"*ˁ +G
:= # ˁ+ ˁ F% % !#F! " ˁ+ˁ !$ % ˁ (+ (ˁ# (CZ\(($+)F(.W, ˁ (S$ (+* (, . [illegible] %%)() G
ˁR % %. ˁ(ˁ#".O *ˁ# (#((("$ˁ)"*ˁ.())F(!ˁ !%(!ˁ%"*# "*ˁ*(" $!ˁ *#! ˁˁQ" (ˁ
! ' $ˁ ') (ˁ% ! ()F ˁO ..!ˁ !, ! (1" Q" ˁ%"# %."! ˁF"*! ˁ(,%"* ˁCQ"(ˁ ˁ %% 9
) " ˁ" + R % O(%()". (%"(ˁO ˁ*(R ' (C)()F ' (*ˁ)" (ˁVˁ"*! "ˁ!,% "9
+ ,F ˁ(" ˁ*(.ˁ1!) $! ˁ *# ˁ# !O $ $ C" . ˁ %ˁ ˁQ" [illegible]%() *ˁ+)!.! *ˁ ˁ
#(.. $ *ˁO .) # () (*ˁF(, $ ˁ !,! ($+!ˁ1 " CFW+ !# % $ˁ# !F , ˁ (*Q"): $) 9
$ *ˁ !.. C, O ˁ!*$," ˁ)! #! ˁ#" + $," ˁ %% ˁV!*$ ˁ)! "# , ˁF"9
ˁ ˁ *! ˁ $ $("*ˁ# ' #"Oˁ#(% "* G(+ˁ *# *ˁ +") ˁ (F)" +)ˁ/%(+ Oˁ(+ˁ *O
!+ (($% "*ˁV(.Oˁ# !%."O (ˁO(.+ -!** $+(Vˁ)ˁ O) $$(ˁO) % *(ˁ."O
* Q" ˁ+O % .!) .) , % * . ," ˁ# !+ . ˁ%."' ," .ˁ/!$! F (ˁ * ˁO F . ˁ')9
($+(Cˁ" $(C(,"$+($ (CˁVˁ(., ˁ[illegible]*". _*ˁ#" R(!$ F" ˁ "*ˁ#! ,% $ˁ[illegible]+ % .."ˁL%ˁ
.!$R"*ˁ $ *ˁ+ ˁ ," ˁ*(R% ˁ%$!* $ ˁ% *!$ *ˁ# !+"' *" Oˁ%$ *ˁF")ˁ% R! !ˁ *9
#!$(* ˁ V) *ˁ+ ˁ $! ˁ+ %)(ˁ (*ˁ%ˁ(+F")ˁ" (ˁ% (ˁ $ˁ* + "*ˁ# !% ˁO ..)9
*" G *#" + %. !.)*ˁ)_ %"*ˁ%""*ˁ+ % $" %.)"# *" ˁ" ˁ.!$R ! ˁ+ ˁ% + ,%ˁ
(+)(# * $+"*1ˁ# (C. *ˁ% F Q"(+ -.(%"$ % * . (ˁ . $ˁ "$Q"(*ˁ $ˁ)!R 9
(%. *ˁ+ ˁ %ˁ(+ S$ R. -.(ˁ $ˁ* +) $("ˁ% "*ˁ % ˁ ($ˁ*". (+) ˁ#! " %. 1ˁ(" ˁ.!R$!9
) C$(*ˁ%ˁQ"(Cˁ+ % (ˁ%"$ˁ* *! (ˁ # (*" ˁ$"..".ˁ %ˁ $ˁF! * $ ˁ*! ," ˁ(ˁ#.(* ˁ# + ˁ
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O,("%

========= 7 / ' \ ' % (' ============' 9
,(" '("O!%"*'(1 !' "+ ! " (' $' ," ' ($ (!*)$)!$) . (! 7 ' > '$ " '
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)(" ('$ R! "*' (+"' CL)+ ''1(*'+ + (##(Q"($ "*F(..") $(" '%" Q"($G' 7 ? '
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. $ *' " V# ()#((" % V)F(W, ' $% (L 1"%+ ()"*'% !'$(" 'Q""*'% \ (9'
+ *')"*' .. 'F(, ('%()". (' ' ' (R$ $(" (')"*'% '$(" (' O(.+ ')!$O $ '
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+!Q" + *'F!)'(,' ..! (F(" ')"*'. $ ' 1"%+)*'%#) O O(# !#) 'O ' O$+ *'
..')"*'% !'%()". ( )*' ,""$ '(+')$ 'V.'(. ("*' $ $(O"*'#("*'! ,+ "+ !$
/ (. $" '("O ! ' % 1" '"%"*'FW+ !# % $')" (V) (%., 'F"*! ' +") ' (# !)"*'% &('
.) (%!'%"*# "* '(.O"*'%",+") :'# ' #" 'O ,') (%%! 'F"*! ' O()"(C'#. Q" '
(+FW+ !# *)!** $+($)"* * ". (% +*(R$ * " ' $' "%"*') # (" '$!$'%)" '
Q"(*% "* # (#(('+ ,)' $ .. R! ' '&! R $ ' $ +"*' +! $ $" ' 7 !+! '% ' ' '
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1" #!.. $ *' $!,% "+ !$," # !# $(,('V)F(.W, #".O '# (C% ,(' ' '& (9'
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)() (*'F(, '("+ ! Q" ('% 'V)F(.W, '%)! ()! O$+ *'* (..! "*'%"$ '#(')(. + ! '
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+ *)(#WC ..! Q" C (*)(,!$ Q" *($+"$ (.!)#" R('+ $+ ' #F (*')"*'
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"ˢ% ˢ)! #! ˢ+ %#!% !$)!$O $ $ ˢO $"*ˢ(Q"(ˢ+ .")"* %ˢO $"*ˢ, , $+"*ˢ ("ˢ

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Vˢ+).)(! ˢQ" (ˢ%ˢQ"! + ˢO * ($ ˢ$ * "*ˢ%(R($ " (ˢ$ 1 +!ˢ+ ˢ !,! ($ " ˢ

) Q" "*"$ $% Q") > !^O* ˢLO !ˢ+ ˢ(,% $),"$ %%), ˢ(+ˢ%)! * * !+ ˢ# !9ˢ

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1ˢ(, ..(ˢ(! * ( )ˢ !.(C% !2P"5" ˢ+ ˢ1)! ˢ R !ˢ"$R" $!ˢ(.Q"!ˢ)! * * !+!.ˢ%#. 9ˢ

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$C7 , :ˢQ"! + #("*ˢ, ,($ ˢ& (, "ˢ% ˢ#".O ˢ# ˢ*".)! ˢ("ˢ#(")! ˢ+ # !(R $ 9ˢ

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7 &&ˢ) ! ($ˢ !$%)+ !$ ˢ .." ˢ F(.W, *ˢ# (#(("*ˢ) # $ ˢLQ"(*ˢ)" +($1ˢ*". ˢ

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+ . @ #!% (ˢ# # .)ˢO + \ˢ $ˢ(. ˢQ"!Q" ˢ*". ," ˢ#))"." (ˢ%) ˢ> ˢˢ ˢ $ˢ#." * ˢ+ 9ˢ

. %" Cˢ$(*ˢ*". (ˢ%"$ˢQ"(ˢ ($ˢQ,)("%(*ˢ $ˢ#("ˢ)! *ˢ#(*ˢ* . R"$ ˢ +* (, 9ˢ

. .($ ˢ $ˢ % !$ R! !ˢ %ˢ 1" ˢ!# ( ) ˢQ" (ˢ!,% "+ !$ ˢ !.. ˢ* $% ˢ%"## . ! ˢ) ˢ

" "*ˢ *"$+((# "*Q" ˢ(+ˢ)!F # F+! *ˢ ++ ˢ(ˢB"($+!Q" + *ˢ (* # 1)).((ˢ

+ ˢ) !+ +(."$ 1VQ"(*ˢ% ˢ$) ..("*ˢ(+ˢF"*($! "%" ˢ+ * !$% ("* % :ˢ"F"*ˢ

ˢ)"# *ˢ"ˢ+! * $" ˢ7 !+! ˢ (*ˢ$!, % R$ %)(ˢ$!$ˢR (O) " ($ˢ " "*ˢ(. Q"(ˢ%(a

@%! 3) . (ˢ!, $)(ˢCQ" ((,ˢ "+ ˢQ" ,"%+(*ˢ* +) ˢ# ˢ%) , ˢ ˢQ"ˢ *,) ..)V%"$ˢ ˢ

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% + . (ˢ $ˢQ" ," ˢ(+ˢ'R ! "ˢ"% $) ,")!Q" " ˢ$) ($ ˢ *(R$"*ˢ ˢ (ˢ ˢ), * !+"$ ˢ

#!..) $ ")(.! ˢ (* $ˢQ") ,! ˢ ˢ)!Q" ˢ * * " (ˢ .."+ˢ$ Q" ˢ$ Q" ˢ(. "+ˢ)! * * !9ˢ

+"*ˢ()) + $ %ˢQ",+ˢ(" "*ˢ , + ," ˢ#" R(" ˢ: (+ *ˢ $ *ˢR (O (Q"(%" ˢ$1 9ˢ

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Z#2%(ʿ .. ʿ %. ʿ+ , %) :ʿQ" (ʿ) *ʿ(" "*ʿ(,ʿ(R)$!ʿVʿ OQ"(:ʿ .. ʿ# *ʿ ' (ʿ #) "$ " ʿ
% #((" ʿ(Q"'ʿ%! ʿ, $ %) !ʿ +ʿ% O $ $!ʿ)! !+)$) Vʿ. F(. :ʿ"$+ ʿ% ʿ$ Q" OQ" ʿ
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+ " (+)"+ $+(* * !$ (* (" ʿ(. "*ʿQ" *# (* $ʿ"%"$ʿ) *ʿ $ʿ") ,. Q"(" % ,Oʿ
. * (*ʿ $ʿ#".O *ʿ +(+"$ ʿ $) "$ ʿ")ʿ*(R ʿ#" R(4ʿ#" 1 " Q" ʿ)O(+(Cʿ)!$% + Oʿ
(ʿ R!ʿ($ʿ("$ *ʿ 1" ʿO $ $ʿ(+ +ʿ# $) !%ʿ#( ) # ʿ$!#ʿ%(3 (*ʿ%ʿ#(O(ʿQ"($. ʿ
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* ! * ʿQ"(Cʿ .. ʿ, ("+ʿ))+ ʿ B"($+!Q" + *ʿ R " ʿ1(*ʿ (+O %# (%) ʿ $#" ʿ$! ʿ
+ % (Q" (*ʿ%ʿ "# %) (Q" ʿ* ʿ(+*!$ $(*+ % % " ʿ%"*ʿ@ (. ;Oʿ
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minor obſervatur diverſitas quàm in illis quæ vulgares in diverſis Galliæ Provinciis reperiuntur: nam licet omnium quos mihi quidem conſpicere licuit forma quodammodo ſimilis ſit, ſex videlicet foliis conſtans, eorumque terna interna folia magnâ ex parte tribus externis ſint latiora & ampliora, quidam tamen flores illa repanda habent, hoc eſt, illorum extimas oras reflexas habent: nonnullorum verò oræ vel non ſunt reflexæ penitus, vel certè quam minimùm; rurſus illi flores qui extimas foliorum oras reflexas habent, alii aliis ſaturatioris ſunt coloris, quidam etiam adeò ſaturi, ut nigri videantur, præſertim externâ foliorum parte, quæ nec ſplendet nec teſſellis diſtincta appâret; at interna purpureis quibuſdam maculis diſtincta vel frequentioribus vel minùs frequentibus, aut magis ſaturis, aut dilutioribus, eaque ſplendet. Illi verò flores qui folia repanda non habent, vel quorum oræ paullulùm dumtaxat ſunt reflexæ, externâ parte ut plurimum vireſcentis ſunt coloris, internâ autem ex viridi flaveſcentis & ſplendentis, quali pænè præditus eſt tenuior ille ſericeus pannus vulgò tafetas vel cafat nuncupatus, ex flavis & viridibus ſericeis ſtaminibus contextus; atque in illis teſſellarum illa diſtinctio obſcuriùs appâret: ſingulorum autem foliorum ungues interni nonnihil cavi ſubviridem maculam impreſſam habent: ex floris verò umbilico ſex alba ſtamina prodeunt, quorum apices pallidi, inter quæ trifidus exilit ſtylus paullò ſupra ſtamina ſeſe exerens.

Fritillariæ Pyrenææ varietas.

Florent paullo ſeriùs quàm vulgares ſerotinæ Fritillariæ, & ſemen ferunt in thecis ſive capitibus triangulis, vulgaris Fritillariæ inſtar, planum, vulgaris ſemini prorſus ſimile, in quo nullum etiam germen conſpicitur. Interdum hæc planta binos flores in eodem caule profert, quemadmodum vulgaris.

Audio hujus generis plantas reperiri quæ proferant florem pænè flavum, nonnullas etiam quæ prorſus flavum, quas nondum videre mihi contigit.

pag. CCLIX. *ante Sectionem*, Id autem,

Croc. vernum capillari folio.

& certè illius quod cæruleum habet florem aliquot bulbos ſemel atque iterum miſit: at illius quod albo eſt flore, ne unum quidem bulbum ab ipſo impetrare potui; in alios tamen magis liberalis fuit: certus enim ſum eos, qui illud habent, ab ipſo accepiſſe. In Hogelandii horto, anno Chriſti milleſimo ſexcenteſimo tertio aliquot plantas conſpiciebam, quarum tres apertum florem habebant, eumque candidum, reliquas quæ erant contiguæ, ejuſdem generis fuiſſe opinor: nam eæ plantæ quæ cæruleum florem habebant, quarum vicenas aut plures numerabam, ſeorſim certo ſpatio ab illis erant ſegregatæ.

Flo. albo. *Flo. cæruleo.*

pag. CCLXXXVII. *ad genus* XXV. *pernicioſorum fungorum.*

HANC etiam iconem Viceſimi quinti generis pernicioſorum fungorum, habuit Moretus Typographus, quam ſuo loco reponeret: verùm eâdem negligentiâ prætermiſſa fuit, quâ legitima Ruta montana cap. XXXIV. lib. V. pag. CXXXVI.



FINIS APPENDICIS.

Candido Lectori.

TYPIS jam expreſſâ alterâ Appendice ad Rariorum Plantarum Hiſtoriam, quaſdam plantas adhuc videre mihi contigit, quarum neminem hactenus mentionem feciſſe arbitror: adeò enim immenſum eſt hoc Rei Herbariæ ſtudium, ut multæ plantæ à diligentibus perquiſitoribus quotidie reperiantur, quas in rerum natura minimè extare putabamus. Quum verò quæ ad meam notitiam pervenêre ſint elegantes & valdè raræ, earum qualemcumque hiſtoriam & nonnullarum icones affabrè delineatas ad alteram illam Appendicem adjunctam eſſe volui. Benevolus lector etiam propenſum hoc noſtrum de ipſo benemerendi ſtudium boni conſulat.

Roſa ſemper virens.

*ante Roſam campeſtrem lib.*1. *Plant. Hiſt. cap.* LXXXI. *pag.*116.

MITTEBAT ad me Patavio doctiſſimus vir Ioachimus Iungermannus, C. V. Ioachimi Camerarii Noribergenſis poliatri ex ſorore nepos, anno Chriſti milleſimo quingenteſimo nonageſimo ſecundo aliquot ſemina, & inter illa cujuſdam Roſæ ſemen, cujus ſchedæ inſcriptum *Roſa ſemper virens*: ex eo Francofurti ad Mœnum terræ commiſſo natæ ſunt mihi inſequente anno quinque aut ſex plantæ, quas inde diſcedens, Lugdunum Batavorum adferebam, & amicis donabam. Mirificè quidem luxuriârunt illæ plantæ annis ſubſequentibus, ſed nulla florem protulit, præter eam quæ in Academico ejus urbis horto alebatur: ejus enim flos iſto demum anno milleſimo ſexcenteſimoquinto conſpectus eſt Iulio menſe, duodecimo videlicet poſt quàm planta nata eſt, anno, non ſine magna ſanè mea lætitia: quia tametſi ſemine terræ commiſſo eas plantas adquiſiviſſem, obſervans tamen adeò adultas nullum florem proferre, valdè metuebam, ne ſoli mutatione ſteriles evaſiſſent. Nunc autem, quum ejus florem conſpexerim, facere non potui, quin illius in hac altera Appendice ad meam Rariorum Plantarum Hiſtoriam, mentionem facerem.

MULTIS porrò hæc Roſa ſtatim à radice luxuriat ſarmentis flexibilibus & caducis, niſi quis palo ſuſtineat, aut ad parietem applicet: nam non valdè craſſa ſunt, ſed lenta, viridia, ſpinis rubeſcentibus, hami inſtar aduncis & mucrone verſus terram converſo obſita, ut pleraque ferè omnia Roſarum genera, eaque alternatim ambiuntur à foliorum alis, ſeptem interdum, ſed quinque ut plurimùm, foliis præditis, ex adverſo ſeſe ſpectantibus: horum duo quæ latiori alæ ſedi, quâ ramum amplectitur, proxima, minora ſunt, bina alia quæ ſuccedunt illis duplo pænè majora, quintum extremam alam occupans, & imparem numerum faciens, omnium maximum: ſingula autem à nervo medium folium occupante aliquot venas habent ad folii oras excurrentes, in ambitu ſunt ſerrata, & præ viriditate ſplendent; nec defluunt ut in aliis Roſis, ſed etiam hieme (licet viridis ille ſplendor aliquantulum marceſcat) permanent: eam ob cauſam Roſæ ſemper virentis nomen illi inditum. Novo vere ex flagellis illis ſive ſarmentis è foliorum alis multi oriuntur nouelli rami, initio quidem cum foliis nonnihil purpuraſcentes, deinde verò colorem viridem contrahentes: quorum nonnulli ſummo faſtigio ternos aut quaternos gerunt flores uncialibus gracilibus petiolis ſubnixos, quinque foliis pænè uncialibus conſtantes prorſus nivei candoris, è quorum medio plurima ſtaminula prodeunt candida, flavis apicibus inſignita, & inter illa capitellum hirſutum albicans. Floris odor ſuavis eſt, & ad Roſæ moſchatæ ſimplicem quinque foliorum ſeriem habentis odorem valdè accedit; ſed nec ipſius floris forma valdè diſſimilis.

Ad Appendicem alteram ad cap. XI. *pag.* 152. *ubi de Fritillaria alba ago, adde,*

Mittebat verò eruditiſſimus Venerius anno Chriſti milleſimo ſexcenteſimo tertio, aliquot hujus Fritillariæ albo flore bulbos amicis. quos accipiebâm, perierunt cum pleriſque aliis ſelectioribus plantis: quos verò accipiebant Hogelandus & Porretus, conſervati ſunt; & Hogelandus quidem altero poſt anno binas habuit plantas quæ flores tulerunt notis quibuſdam diſcretas: unius enim flos totus albus fuit, alterius foris etiam albus, internâ autem parte venis quibuſdam purpuraſcentibus diſtinctus: Porretus unicam habuit, cujus flos totus albus fuit.

Narciſſus iuncifolius flore albo reflexo.

ad cap. XII. *Lib.* II. *Rariorum Plantarum Hiſtoriæ.*

PYRENÆI montes multas plantas elegantes proferunt, quarum pleræque eorum qui de re Herbaria ſcripſerunt notitiam effugerunt, quia nullius adhuc tanta & tam exquiſita fuit diligentia, ut omnes quæ in illis montibus naſcuntur, obſervare potuerit: paulatim tamen qui viciniora iis loca inhabitant viri docti Herbarum ſtudio ſeſe oblectantes, plurimas obſervârunt, inter quos primarium locum meritò obtinet eruditiſſimus vir Ioachimus Venerius, cujus beneficio his proximis annis aliquot accepimus: ſed & rhizotomi quidam Galli ſpe lucri illecti, pleraſque in has provincias attulerunt. Præter eas porrò, quarum in mea Rariorum Plantarum Hiſtoria, ejusque altera appendice nemini, duo Narciſſi genera hoc anno Chriſti ſexcenteſimo quinto ſupra milleſimum apud amicos flores protulerunt nunquam antea mihi conſpecta, quorum Primi iconem ſubjecta tabella expreſſam habet, & addita eſt brevis ejus hiſtoria.

NARCISSVS *Iuncifolius albo flo. reflexo.*



PRIMVS igitur è radice bulboſa nucis ponticæ magnitudine, candida, fuſcâ membranâ obducta, cujus ſedem plurimæ tenues albæ fibræ occupabant, quaterna aut quina exiliebant folia dodrantem longa, anguſta & pænè juncea, aliquantulum ſtriata, & ſupinâ parte nonnihil carinata, viridia, inter quæ prodibat dodrantalis caulis viridis, lævis, non valdè craſſus, ſummo faſtigio ſuſtinens in membranaceo involucro binos, ternos, interdũ quaternos oblongos flores nivei quidem candoris, ſed odoris expertes, deorſum propendentes & nutantes, ſex longiuſculis & ſatis anguſtis foliis præditos, ſurſum reflexis florum cyclaminis inſtar, è quorum umbilico prominebat calix ſemunciam longus, vel etiam longior, inæqualibus oris, continens tria ſtaminula alba, quorum apices flaveſcentes, & tenuem longum ſtilum extremas calicis oras multum ſuperantem: ſuccedebant triangulares ſiliquæ ſive thecæ, exiguo, orbiculari, nigroque & ſplendente ſemine plenæ. Florebat autem Aprili.

Iſtud Narciſſi genus redimebant biennio antè à rhizotomo quodam Gallo cui nomen Nicolaus le Quelt ſive Quilt, elegantes & raras plantas in has Provincias quotannis adferre ſolito, quas per ſuos in Pyrenæis & etiam in Hiſpaniis conquirere jubet. Inter eos autem qui redemerunt nonnulli hujus Narciſſi plantas habuerunt paullo latioribus foliis præditas, quarum flores etiam oblongiores erant.

ALTERIVS Narciſſi juncifolii unicam plantam habuit Chriſtianus Porretus pharmacopœus Leydenſis diligentiſſimus à Petro Gaſſano ſive Plantino miſſam, cujus multo longiora erant folia quàm præcedentis, & viridia; caulis etiam longior, ſummo faſtigio ſuſtinens binos aut ternos flores, diverſæ tamen à ſuperiore formæ: nam Narciſſi juncifolii minoris floribus valde ſimiles erant, horum tamen color albus tam ipſius calicis quàm ſex foliorum ipſum ambientium. Florebat etiam Aprili: radix erat non valdè magna, longiuſcula, membranâ eam cingente prorſus fuſcâ. Accipiebat etiam ab eodem alios bulbos ſimili nomine inſignitos, craſſiores tamen, quorum folia ejus foliis quos Nicolaus adferebat valde ſimilia erant; ſed florem nondum tulerunt.

CETERVM anno ſuperiore nobis mittebat non ſolùm Venerius, verùm etiam Nicolaus adferebat plantas Narciſſi juncifolii albo flore nomine donatas: eæ autem quum florem nondum protulerint, nihil de ejus formâ vel colore pronunciare poſſum; nam bina

dum-

dumtaxat habuerunt hoc anno folia cùm eæ plantæ quas nactus ſum, tùm quas alii redemerunt, & illa quidem anguſta, ſupinaque parte aliquantulum plana, valde longa, non tamen ſurrecta, imò potiùs humi quodammodo procumbentia: illorum item color, meâ opinione, non unus. Nam plantarum quas Venerius mittebat, magis viridis videbatur; earum quas Nicolaus adferebat, magis ad cæſium tendens, pænè ut foliorum Pſeudonarciſſi. Si quam porrò dabunt florum differentiam, proximus aut eum ſubſequens annus nos (ſi vivimus) certiores efficiet.

Pſeudonarciſſus albo flore.

ad cap. XVII. *Lib.* II. *Rariorum Plantarum Hiſtoria.*

INTER Narciſſos reponendam eſſe eam plantam quæ Pſeudonarciſſi appellationem vulgo obtinuit, nullum eſſe opinor mediocriter in re herbaria verſatum, qui dubitet. Multæ autem ejus ſunt differentiæ: nam præter eas quas in mea Rariorum Plantarum Hiſtoria deſcribebam, cum majores tum minores, atque alias multos jam ante annos vulgatiſſimas, Pyrenæi montes & loca illis vicina nobis adhuc ſuppeditârunt alias majores & minores, formâ & colore diſſimiles: nonnullæ enim flores habuerunt ſex foliis tubum amplectentibus perpallidis & quaſi albicantibus conſtantes, aliæ pallidis, aliquot etiam paullò ſaturatioribus; tubum verò aut valdè amplum, aut anguſtiorem, eumque vel pallidum, vel valdè flavum & quaſi aureum, aut oris fimbriatis, aut quodammodo æqualibus & minimè criſpis. Verum enim verò proximis his annis novum quoddam genus repertum eſt, quod valdè rarum cenſeo, cujusque binos bulbos anno Chriſti milleſimo ſexcenteſimo quarto ab eruditiſſimo Venerio accipiebam cum Cyclaminis novo vere (ut adſcriptum erat) albos flores proferentis paucis bulbis, & aliquot aliis plantis non vulgaribus. Horum alter florem mihi protulit inſequente Aprili, quemadmodum etiam aliis quibus ſimiles plantas communicauerat. Sed & eodem anno menſe Decembri rhizotomus quidam Gallus ſimiles plantas venales adferebat, à quo ego & etiam alii redimebamus. Quoniam porrò valdè elegans eſt planta, nec à quoquam (quod equidem ſciam) adhuc deſcripta, aut ejus icon exhibita, rem non ingratam me facturum exiſtimavi, ſi illam Lectoris oculis in ſubjecta tabella proponerem, & ejus brevem hiſtoriam adiicerem.

PSEVDONARCISSVS *albo flore.*



TERNA autem è radice bulboſa oblongiore nigroque cortice ſive membranâ tecta (à cujus ſede frequentes tenuesq. oriebantur candidæ fibræ) proferebat folia, dodrantem vel paullò amplius longa, Narciſſi anguſtioribus foliis valde ſimilia, ſupinâ parte carinata, inter quæ nudus prodibat caulis ſatis exilis, non craſſus, dodrantem altus, ſummo faſtigio membranaceum folliculum gerês, è quo propendebat flos totus albus, Pſeudonarciſſo vulgatiori, quem Germani Gelbe Hornungs blumen / Belgæ verò Geele Tijlooſen appellant, formâ quidem ſimilis, paullò tamen minor, ſeſcunciam longus, ſex foliis tubum amplectentibus ſimiliter conſtans, tubo autem paullò anguſtiore, & oras nonnihil fimbriatas habente, in quo ſex alba ſtamina flaveſcente apice prædita, & medius ſtilus longior: nullum verò peculiarem odorem in eo flore obſervabam, qui aperiebatur Aprili, deinde Iunio ſemen proferebat in triangulari capite ſive thecâ, orbiculare, nigrum & ſplendens, quale Narciſſi juncifolii albo flore reflexo, ſed majus.

ad calcem cap. XIX. *lib.* II. *Hiſt. Rarior. Plant. hæc etiam addenda.*

QVVM anno Chriſti milleſimo quingenteſimo nonageſimo ſecundo Narciſſi iſtius iconem accipiebam, eam illico exprimen-

dam curabam; & ex aliquot notis à Iacobo Plateau ipſi additis, illius hiſtoriam concinnabam. Septimo inſequente anno Illuſtris idemque eruditiſſimus vir Ioannes Vincentius Pinellus piæ memoriæ, unicè mihi charus, ejus bulbum cum aliis quibuſdam Narciſſis ad me mittebat, qui ſingulis annis flores protulit, & hoc quidem anno milleſimo ſexcenteſimo quinto quatuordecim ſummo caulis ſatis craſſi & trigoni faſtigio. Tametſi porrò iconem miſſam non adeò feliciter, ut decebat, expreſſam eſſe viderem, mutandam tamen non putabam, quia ex illa lectorem ſatis perſpicuè animadverſurum confidebam, de qua planta ſermonem inſtituiſſem. Plantam quam mittebat Pinellus unde habuerit, ignoro: certum tamen eſt jam multo tempore in Italia fuiſſe notam, quia Matthiolus Narciſſi tertii appellatione eam donavit; & in Sereniſſimi Ducis Hetruriæ horto cultam fuiſſe ſcio, unde Iacobus Plateau ſemen nactus erat. Anno autem Chriſti ſexcenteſimo ſupra milleſimum, ut antè dicebam, multos ejus bulbos adferebat Amſtelredamum Ioannes ab Ophem Bruxellâ Brabantiæ oriundus, quos ipſemet in Illyrico eruerat: inſuper capſam iis & Scillæ bulbis aliiſque rebus plenam ad fratrem mittebat, qui Bruxellæ commorabatur, ſed quum Middelburgum eſſet perlata, & iſtic ad aſpiciendum quid contineret, aperta; fiſcus manum in eam injecit, quòd nonnulla contineret, quorum tranſvectio erat prohibita. Bulbi qui inerant, inter multos diviſi: Ornatiſſimus vir Simon Parduynus aliquot etiam habuit: is unum ad me Lugdunum Batavorum mittebat, qui demum hoc anno flores ferre cœpit, binos autem caules habuit, unum octo floribus præditum, alterum decem: ſucceſſit deinde in craſſiuſculis, trigonis, & unciam longis thecis ſemen orbiculare, nigrum, ſplendens, Pſeudonarciſſi flo. albo ſemine majus. Planta verò quam à Pinello accipiebam, quamvis quotannis, ut dixi, flores protulerit, nullum tamen ſemen dedit, niſi hoc etiam anno. Sed biennio antè ſemen ſimilis plantæ Amſtelredamo ad me mittebat ornatiſſimus & perhumanus vir Theodoricus Coornhart ejuſdem urbis civis, lectum in iis plantis quas à Ioanne ab Ophem redemerat, è quo terræ commiſſo natæ mihi ſex aut octo plantulæ.

Hæc autem proferre libuit, ut omnes intelligant, plantas quæ primùm huc advectæ, ex Oriente aut India non fuiſſe petitas, ut quidam ſibi perſuadent, & aliis etiam perſuadere conantur, ſed in Europa natas.

Bulbus μονόφυλλος.

an Βολβίνη Theophraſti?

Bulbus unifolius.



VALDE rara eſt hæc planta: certè ante annum milleſimum ſexcenteſimum quintum ejus flos mihi non conſpectus. Eam autem redimebam biennio antè à Gallo rhizotomo Nicolao le Quilt Lutetiæ Pariſiorum commorante, cum aliis bulbis, qui in Luſitania, ut ipſe aſſerebat, eruti. Quùm verò non ſit inelegans, imò valdè raram eſſe mihi perſuadeam, ut qui unicam illam plantam habeam; nec apud aliũ quempiam, ſimilem conſpexerim, dignam exiſtimabam quæ in hac Appendice locum haberet: propterea in tabella exprimendam curabam, ut ejus icone lector frui poſſet.

UNICO autem è terrâ prodibat folio tenui primùm & prorſus junceo, quod tandem pedalem adquirebat longitudinem: duabus autem ſupra terram unciis paullo majorem adquirebat latitudinem, & canaliculatum fiebat, extremâ tamen parte manente junceâ: ubi verò latiorem adquirere incipiebat latitudinem, ex ejus medio exiliebat triuncialis longitudinis cauliculus, tenuis, lævis, dilutiùs virens, in cujus faſtigio alternatim ſiti erant tres flores non valdè magni (ut ex icone obſervari poteſt, in qua volui florum magnitudinem expreſſam) qui ſex foliis candidiſſimis erant præditi, non multum abſimiles floribus

Grami-

Graminis Parnaſſi Herbariorum, ſive Hepaticæ albæ Cordi, ſed nullo caliculo, ut illi, incluſi: è quorum medio prodibant ſex alba ſtamina flavis apicibus prædita, & umbilicum occupabat capitellum triangulare, ſummo faſtigio ſuſtinens exilem ſtilum albū, ſtaminum longitudinem non excedentem. Odoratus autem erat iſte flos, & Spinæ appendicis florum odorem æmulabatur. Ejus bulbus orbicularis erat formæ, nec avellanæ nucis magnitudinem excedebat, fuſcâ membranâ tectus, ſedeque illius multis tenuibus candidis fibris obſitâ. Bina folia totidemque cauliculos habuit, ut in tabella ad plantæ normam expreſſa videre licet: flores autem aperiebantur medio Iunio: quale ſemen prolatura fuiſſet, nihil pronunciare poſſum, quandoquidem plantam è terra eximere coactus fui, ut pictori exprimendam traderem; & tametſi bulbus poſtea terræ denuò fuerit commiſſus, caulis tamen cum flore brevi emarcuit.

Qvo nomine appellare debeam hanc plantam dubito, niſi quis fortè Βολβίνην eſſe cenſeat, cujus Theophraſtus lib. VII. Hiſtoriæ Plantarum cap. XIII. meminit: ſed quùm eam non deſcribat, & dumtaxat reponat inter plantas quæ bulboſâ radice conſtant, difficile eſt certi quidpiam ſtatuere. Sive autem Βολβίνην, ſive Βολβὸν μονόφυλλον quis appellare malit, per me ſemper licebit: ſatis mihi eſt ipſius plantæ hiſtoriam, quàm integrâ potui fide, cum illius icone Lectori proponere.

Alteri Appendici ad cap. XXX. *lib.* II. *Rariorum Plantarum Hiſtoriæ pag.* 183. *adiunge*

Ceterum anno milleſimo ſexcenteſimo quinto mihi & aliis aliquot bulbi qui flores cæruleos gerunt, plures flores, vel longiorem florum comam protulerunt, quàm præcedente anno: qui tamen pro eo miſſus, cujus flores eſſent albi, nulli florem tulit quam illo ipſo anno. Hogelandio planta una, Porreto planta una, Honeſto planta una, mihi etiam unica quam habebam planta: nam quam Venerius anno præcedente mihi mittebat, hiems corrupit.

Hyacinthus ſtellatus æſtiuus minor.

ſubiiciendus Hyac. ſtel. æſtiuo majori in Altera Appendice.

Qvvm primùm è terra prodit hæc planta, ſeptena aut octona à radice promit folia anguſta, plana, viridia, & quodammodo ſplendētia, circiter ſeptem uncias longa, quæ ſeſe humi diffundunt & in orbem ſpargunt, atq. veluti contorquent: inter quæ aſſurgit cauliculus teres, brevis, binarum unciarum longitudinem non excedens, ſummo faſtigio ſenos aut ſeptenos floſculos alternatim ferens, veluti in ſpicam congeſtos, iis formâ & colore pænè ſimiles, quos profert Hyacinthus ſtellatus æſtivus, cujus paullò ante memini, ſed longè minores: his ſuccedebant triangula etiam capitella extremo mucronata, nigrum ſemen continentia: radix erat bulboſa, ferè orbicularis, craſſæ avellanæ Hiſpanicæ magnitudinem æquans, candida, ſed fuſcâ membranâ tecta, è cujus infimâ ſede numeroſæ exiliebant fibræ, magnâ ex parte valdè tenues, iis tamen admixtæ ſeptenæ aut octonæ paullò craſſiores. Florebat Maio menſe cum majore.

Unicam hujus generis plantam, eamque ἀνώνυμον accipiebam anno Chriſti milleſimo ſexcenteſimo tertio à Nicolao le Quilt ſive Quelt Gallo rhizotomo cum bulbo unifolio, & aliis quibuſdam è Luſitania, ut aſſerebat, petitis.

Cyclaminus vernus albo flore.

ad cap. LIX. *lib.* II. *Rariorum Plantarum Hiſtoriæ.*

Anno Chriſti milleſimo ſexcenteſimo quarto, menſe Auguſto, à Venerio paucos Cyclamini bulbos, quos ſcribebat verno tempore florem album proferre, accipiebam cum aliis quibuſdam raris plantis: acceperunt & alii ejus amici, quibus omnibus inſequente anno folia quidem protulerunt, ſed nullum florem: alioqui non prætermiſiſſem ipſius plantæ iconem in tabella expreſſam Lectoris oculis proponere. Erant verò ea folia circinatæ pænè rotunditatis, non valdè ampla, ſed ſatis denſa ac craſſa, pronâ parte impensè rubra (pronam autem partem intelligo quæ terram ſpectat, & in eâ procumbit) ſupinâ verò viridia quidem, albis tamen maculis per totam ſuperficiem reſperſa. Quòd florem non tulerint, an id acciderit propter aëris & ſoli mutationem, an quòd nondum ſatis adultæ fuerint plantæ, ignoro: nonnulli tamen bulbi nucem juglandem cum ſuo pulvinato calice, aut exigui mali magnitudinem æquabant, & orbiculari erant formâ, quidam etiam magis compreſſâ & planâ, inſtar radicis Cyclamini hederaceo folio.

Sub extremum illum ipſum menſem adferebat etiam ſimiles Cyclamini bulbos Nicolaus le Quelt Gallus, cujus antè facta mentio, à quo binos habui, redemerunt etiam alii; ſed nec illi aliud præter folia inſequente anno produxerunt.

Planta pro Cyclamino verno ſpurio miſſa.

PORRÒ biennio ante miſerat idem Venerius aliam plantam è Pyrenæis montibus erutam, quam flavos flores proferre ſcribebat, & Cyclaminum vernum ſpurium nominabat, quia ejus radix diverſam habebat formam à legitimi Cyclamini radice: tuberoſa quidem erat, ſed cordis, ut vulgo pingitur, formam quodammodo referebat, ſive illorum loculorum quos tenuis fortunæ mulieres apud Belgas geſtare ſolent ad aciculas in eorum ambitu excipiendum; & illa quidem ſatis duro craſſoque cortice conſtans, fuſci coloris, & ferè circumquaque in lateribus, frequentiſſimis iiſque duris & rigidis fibris ſtipata. Hogelandio ſingulis annis aliquot folia protulit: at hoc anno milleſimo ſexcenteſimo quinto, etiam floſculos. Prodibat autem ex hujus plantæ radice uncialis longitudinis cauliculus tubi pennæ gallinaceæ craſſitudine, purpuraſcens, qui ſummâ tellure in ternos aut quaternos ramulos dividebatur, tenues, virides, quorum nonnulli uncialem longitudinem habebant; longiſſimi, tres uncias non excedebant; quos obſidebant folia viridia, longiuſculo pediculo ſubnixa, hederaceorum foliorum quidem formâ, ſed nullis angulis prædita, ſive, ut veriùs comparationem inſtituam, violæ martiæ montanæ foliis perſimilia, variæ tamen magnitudinis: nam quæ maxima, ſeſcunciam erant longa, unciam lata, eaque ſeptem nervis prædita; quædam, unciam longa, & quinque nervos habentia; minora ſemuncialem longitudinem non excedebant, & in iis tres dumtaxat nervi apparebant; omnia tamen in extremo mucronata: longiores ramuli circa ſummum faſtigium, binos aut ternos floſculos herbacei coloris Iunio menſe ferebant, iis ferè ſimiles, quos Ribes vulgare fructu rubro ferre ſolet, in quibus flava quædam ſtamina apparebant.

Ranunculus Pyrenæus albo flore.

ad cap. LII. *lib.* II. *Hiſtoriæ Rariorum Plantarum.*

PRORSVS novum cenſeo hoc Ranunculi genus, certè ante annum Chriſti milleſimum ſexcenteſimum quintum mihi non conſpectum, & illud cultum fuiſque floribus onuſtum ſub Maii initium in hortis Ioannis ab Hogelande & Chriſtiani Porreti, quorum uterque à Ioachimo Venerio plantas acceperat præcedente Autumno è Pyrenæis montibus erutas. Quum verò ejus hiſtoriam à nemine adhuc proditam arbitrer, gratum me facturum exiſtimavi botanico ſtudio ſeſe oblectantibus, ſi illius deſcriptionem additâ icone ad vivum expreſsâ illorum oculis proponerem.



PEDALI autem, imò etiam ampliore aſſurgebant plantæ quas videbã altitudine, caule rotundo ſatis firmo, viridi, per quem alternis terna aut quaterna ſparſa erant folia, ſatis latâ baſi caulem amplectentia, ternas aut quaternas uncias lõnga, unciam verò lata, mucronata, multis venis ab infimâ ſede ad extimum mucronem procurrentibus diſtincta, viridis coloris, qualis ferè eſt foliorum Braſſicæ campeſtris, quorum oræ tenui mollique albâ lanugine obſitæ: ſummo caule ex foliorum quæ minuſcula erant alis exibant terni, quaterni, vel etiam plures oblongiores pediculi caliculum quinquefoliolis conſtantem ſuſtinentes, è quo flos prodibat quinque foliis præditus

ſemun-

ſemuncialibus, tenellis, prorſus niveis, cujus medium occupabant frequentiſſima parva ſtamina flava cum orbiculari capitello, nullius aut perexigui odoris. Quum verò primùm è terra emergebat hæc planta, & ante quam in caulem excreſceret, bina dumtaxat, aut ad ſummum terna proferebat folia tres uncias longa, unciam lata, craſſiuſcula & firma, multis etiam venis ſecundum longitudinem diſtincta, ut quodammodo ad plantaginis latifoliæ foliorum formam accederent: caput radicis hirſutum erat (ut eam ob cauſam perennem plantã eſſe mihi perſuadeam) quod deinde in multas craſſiuſculas albas fibras dividebatur.

ad cap. IX. *lib.* III. *Rar. Plant. Hiſt. pag.* 305. *poſt Sectionem* Creſcit

IN Pyrenæis etiam montibus creſcunt plantæ ab Herbariæ rei ſtudioſis Auriculæ urſi nuncupatæ: nam Venerius Burdigalâ quoddam genus mittebat anno milleſimo ſexcenteſimo quarto, Ioanni ab Hogelande, & Chriſtiano Porreto, quale antè conſpicere non memini: ejus enim folia reliquarum Auricularum mihi quidem notarum foliis erant diſſimilia, ſatisque ampla, & hirſuta, ad Borraginis, aut Hormini ſilveſtris, quod in mea Rar. Plantarum Hiſtoria tertio loco repono, folia quodammodo accedentia: neutra tamen planta anno inſequente, quo hæc ſcribebam, adhuc florem protulerat; eam ob cauſam de ejus forma & colore nihil pronunciare poſſum.

Sub extremum eundem annum aliud præterea genus adferebat rhizotomus quidam Gallus, etiam in Pyrenæis erutum, cujus florem videre nondum mihi contigit: ejus autem folia valde accedebant ad illius Auriculæ folia, quam in Rariorum Plantarum hiſtoria quinto loco repono, in cultiſſimo Illuſtriſſimi Principis Cattorum Willelmi horto Caſſellis obſervatam, iis tamen minora: ex radice autem ſerpente, & multis fibris in lateribus prædita, conjecturam faciebam, ejus plantam ſummâ tellure ſeſe propagare, perinde ac Quartum genus à me propoſitum eodem cap. IX. lib. III.

Stœbe peregrina.

ad cap. IV. *Lib.* IV. *Rariorum Plantarum Hiſtoriæ.*

PEREGRINAM quandam plantam Illuſtriſſimum Ducem Croyum & Areſchotenſem in cultiſſimo ſuo horto, quem in Bellomonte habet, alere ſcribebat ad me anno Chriſti milleſimo ſexcenteſimo quarto Iacobus Plateau, vir in Plantarum cognitione & cultura egregiè verſatus & Stœben ſpinoſam fruticantem appellabat; ego autem inter Scabioſarum ſive Iacearum (quibus Salmanticenſes Stœbes adjungo) genera potiùs recenſeam, tametſi hujus flores ad Cyani flores proximiùs accedere videantur: cuilibet verò per me ſemper licebit ad quam volet claſſem referre. Quoniam autem huic ſimilem antè videre non memini, dignam ducebam cujus brevem hiſtoriam (qualem videlicet ex mutila pictura & paucis notis illi adjectis concinnare licuit) Lectori communicarem.

Illam porrò ſcribebat Illuſtriſſimum Ducem alere, trium circiter pedum altitudinem æquantem, quamque, ſi, anguſtiis non concluſa, liberè excreſcere poſſet, ad majorem altitudinem pertingere poſſe arbitrabatur. Fruticoſam autem eſſe, ramulosque ſatis duros & quodammodo lignoſos habere ſcribebat, foliis valde laciniatis obſitos; ſummos verò ramulos flores ſuſtinentes minoribus iisque ſingularibus foliolis inſtar foliorum lavendulæ eſſe ſeptos, & plerumque in ſpinas deſinere. Præterea totam plantam candicantem eſſe ferè ut Iacobæa marina, quæque Cineraria appellatur: ſquamoſos item eſſe florum alabaſtros & calices, ipſos autem flores candidos, cyani florum formam quodammodo referentes: addebat radicem lignoſam, multifidam atque perennem eſſe; plantam verò flores producere Iulio, Auguſto, & toto adeò Septembri: nam eo menſe abruptum ramulum ſpinoſum folia & flores adhuc retinentem iconi adjunxerat, ut formam tanto faciliùs deſcribere poſſem.

Aſcyrum ſupinum ἑλώδης.

ad cap. I. *lib.* VI. *Hiſtoriæ Rariorum Plantarum.*

ASCYRI quoddam genus ſupinum paluſtribus locis apud Batavos reperitur, quod prorſus molle & lanugine obſitum, caule non quadrangulo, ſed tereti & rotundo præditum, quẽ alternis bina ſemper ambiunt folia ex adverſo naſcentia, ut in Aſcyro vulgari, aliquantulum tamen magis orbiculata, ſummo caule geſtans flores quinque foliis conſtantes flavi coloris, qui triti, ſanguineo ſucco non inficiunt, ut illius quod ſiccioribus locis naſcitur; quod humidioribus natalibus tribuo: procumbunt autem ſinguli cauliculi, &, recenter lecti, humiore turgent, ad ſingula pæne internodia fibras agentes, & ſubinde novellos ramulos producentes, ſub aqua tamen latentes, quâ ratione feliciter ſeſe propagat. Hanc plantam extremo Iunio florentem primùm obſervabat C. V. Doctor P. Pawius,

Artis Medicæ primarius Profeſſor in Lugduno-Batava Academia, anno Chriſti quarto ſupra milleſimum & ſexcenteſimum, mihique communicabat.

Fungus coralloëides cancellatus.

poſt XXV. *genus Fungorum pernicioſorum.*

NON omnis fert omnia tellus, inquit Poëta: & ſanè conſtat nullam Provinciam reperiri, quæ peculiare quidpiam nō alat aliis Provinciis negatum. Scripſeram Commentariolum de Fungis, quos mihi in Pannonia verſanti obſervare licuerat, non dubitans quin illorum pleriq. etiam alibi reperiantur; certo tamen mihi perſuadens, illam provinciam quoſdam etiam habere ſibi peculiares. Hunc libellum quum legiſſet Nobilis vir N. de Callas, Peirets toparcha, pro animi benevolentia quâ me proſequitur, cōmittere noluit, quin ex his quos inter venandum menſe Octobri anno Chriſti milleſimo ſexcenteſimo quarto obſervaſſet, aliquos ad me mitteret, in quo ſanè ipſum rem gratiſſimam mihi feciſſe, ingenuè profiteor. Nam unum inter reliquos, quem peculiarem illis locis eſſe opinor, numquam antè videram, ideoque dignum arbitrabar propter admirabilem ejus ſtructuram, ut publicè ſpectandum in hac Appendice proponerem.

Fungus Coralloeides cancellatus.



NASCITVR autem, ipſo referente, gallinacei ovi formâ, dum è terra primùm erumpit, colore prorſus niveo; radicemque habere ait tenuem, candidam, in multas fibras valdè tenues diviſam, quâ firmatur & alimentum ſibi neceſſarium attrahit: ovum autem illud ſive volvam, dum matureſcit, ſenſim diſrumpi & dehiſcere, & inde exilire tamquam marſupium aliquod diſtinctione cācellatim reticulatâ conſtans, & in obliquos veluti ramos invicem ſeſe ſecantes atque ſummâ parte in unum coëuntes formatum, rubri coloris: ut totidem corallini rami ſimul implexi videantur: ſed admirabilem illam externam venuſtatē & elegantiam prorſus deformari & corrumpi à fœtidiſſimo quem exhalat odore: illum autem odorem oriri ſuſpicabatur à craſſo cineraceoque quodam liquore rubentes illos ramos ſupinâ parte obſidente, quem ſimulatque ex ſua volva excluſus eſt fungus, varii generis parva inſecta mirificè appetūt, & tandem etiam abſumunt, omnē alium cibum præ iſto ſpernentes; imò multos alios fungos, quos alioqui optimos eſſe nobis perſuademus, & in deliciis habere ſolemus.

EOS porrò fungos ſub extremum Aprilem hoc anno milleſimo ſexcenteſimo quinto accipiebam, Aquis Sextiis XV. Feb. ſive XV. Kal. Martii ad me miſſos, quos in ſilvis Belgenterienſi agro interdum, frequentiores autem inter harundines ſecundū fluviolum magna ex parte agrum illum rigantē conſitas reperiſſe ſcribebat: & certè quos accipiebam viroſum quidpiam adhuc ſpirabant (tametſi reſiccati & aridi) & craſſum etiam illum liquorem, ſed præ ariditate durum, nigrum, ſplendentemque adhuc retinebant. Verùm enim verò, quia rami illi ob ſiccitatem valdè contracti & imminuti erant, atq. eorum color longè remiſſior factus: ante quàm in tabella exprimendum curarem, ex ejus præcepto, in aqua macerabam, ut nativam formam & colorem aliqua ex parte reciperet, quò pictor faciliùs exprimere poſſet; & ſanè poſt quàm maceraſſem, denuò intumuiſſe rugaſque depoſuiſſe, & nativi coloris magnam partem reſumpſiſſe conſpiciebam, atque craſſum illum liquorem ſupinam ramulorum partem occupantem mollem lentumque factum eſſe obſervabam.

Inter pernicioſos autem fungos hoc etiam genus referendum eſſe, nemo, ut opinor, inficiabitur; quemadmodum & bina alia quæ addiderat genera. Unum corticis fragmentum adhuc retinens in arbore aut arboris ramo humi jacente natū; aureo colore, nec valdè abſimile Quarto generi pernicioſorum à me deſcripto & exhibito, cujus variæ ſpecies magnitudinē & colore inter ſe diſcretæ. Alterum autem magnam ſimilitudinem cum prima ſpecie Vigeſimi generis pernicioſorum habere mihi videbatur, magnitudo enim & forma reſpondebant; hujus verò extremas oras atque pediculum liquore quodam, dum recens erat, obſita fuiſſe apparebat, qui nunc in arido fuſci coloris erat & ſplendebat.

FINIS.

EVERARDI VORSTII
MEDICINÆ PROFESSORIS
Oratio funebris
IN OBITVM
V. N. ET CL.
CAROLI CLVSII
ATREBATIS.

Auctoris damnati permituntur eius opera

Acceſſerunt
VARIORVM EPICEDIA.



IN OFFICINA PLANTINIANA
RAPHELENGIJ.
1611.

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* " ') (' $'Q" ! " *' + .Q" + $ ') ((" 'V'Q" ! " * '$ +' +) '$! (*' * $ * ') !$% 9'
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ʿR $" ʿ %ʿ $ʿ/ (ʿ 3ʿ1" ʿ*(R$ʿR R ʿ(. ʿ,("+ʿ * $! ʿO".R!)!$9 %#) "$ " ʿ# (C. *ʿ $ʿ*!$ ʿ+(ʿQ"! #(% ! ʿ #F!) $! * $($ $!% $ʿ F!)+ % *. Q"!+$!% ʿ)! $"(ʿ $%. '(ʿZʿ)!$! (ʿR % ($ .. ʿO !!*$ $!ʿ) +(1_ $)! $_1 $(*, ")($(.)".((ʿ *ʿ# *"* ($! ʿ ! "*ʿR R ʿ)!$%#))9)*" R$(ʿ)))1" Q1) * $ %) $ʿ* $ *ʿ%", $Q"))ʿ%ʿB" +ʿ)"*ʿ $)! $"ʿ)! * *"$ ʿF(,)) ʿ B O) ("% %" ʿ" F!)ʿ.!)!+)ʿ $)! $"ʿ + % # (1!$ *ʿ $% ") 9 $" Q"!+ʿ$"$)ʿ $ʿ ($ (ʿ(% *(!$ ʿV #) !ʿ % !$%#) *" ʿ" ʿO(.+! (O" *ʿ. ʿ # (. *ʿ)"$%ʿ(#"+ʿ.O ʿ $ʿ"%"ʿ * +)!ʿ$".. " ʿ%") ʿ(" ! (* (*ʿ%ʿQ"(O ," &ʿ . ʿ "+!) # !)".+", !)(*$!$)" .)$ ʿ % ! . ʿ $ ʿ)(ʿ($ *(. (ʿQ"Gʿ)(*ʿ"$R".(*ʿF(, $ ʿ WR *ʿ) $. ʿ"$)! $ $ Cʿ(ʿ%()". ("*ʿ)! $ $$!$ʿ* * $ ʿ !."* ..(Cʿ (*ʿ%" ʿ W'ʿ)!R$ (ʿQ"($+!ʿ) ,)"*ʿ). Q" ʿ($ *(. ,(O . !ʿZ ʿO93 "(ʿ $).F+ʿ ,.)ʿ B"!+ʿ.ʿ ! * ($ ʿ ʿ)'!)(ʿ#." *"*ʿ(C% *($ ʿ ($%ʿ $. R$ ʿ $)! $" Q"(.) ʿ$"$) . ʿ ,""$ " \%()". ( ) $) . ' $ F("+Q"(Q"(*)(. .)$!ʿ # . .)$ ʿ !$ʿ$ R(*" ʿQ" $ʿ $)! $"ʿ ("*ʿZ ʿ#) !%"*ʿ'% (($ ʿ% +ʿ$!$ʿ"ʿ $ʿ Gʿ

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QO' .+'4')'()) + 'Q"!$ ($ ' "$)!'%! % ($' * $.)'O .'($$! '#."AO '(# ' * $_ ' "$ '# !G'
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) (Q" '#(".!%"# ((+'% $ % (*' %'.!)" %)@ (*'% ' !' "R"% F+ O" $+(*')Q$O $ '
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(+ $"! R " ') 'O +# R $" S# !%) %)(" '(Q O['.!)" '+ * !$% .O '
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+ 1 (Q" + "($ / (. $" * O F) $" %($R" #(% .. %! * ($@+ (+ * %))!$9
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(" *ˢ +! ! ˢ(" "*ˢQ"!+ˢ%."O ! "*ˢ($ # * ' "*ˢ % ˢ#!$+ !% "ˢ +*ˢ. ˢSO$ Gˢ
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. R R($+ ˢ (!$)*ˢ ')!R ($ $ ˢO ..) ," ˢ .."+ˢ ') # "$ ˢ $))!$1 + 9ˢ
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ˢO ..) (ˢ% #(($+ ˢ (!ˢ$"$)ˢ '!. OO ˢ "ˢ (ˢ#! !ˢ(" ˢ(,ˢ($(ˢ% R R($+ ˢ (!$ Gˢ
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)$ Cʿ% +ʿ# ʿʿ . Q" ʿ ʿ# ,(ʿ* (R$" *ʿ$" * " *ʿ)! " *ʿQ" ʿ $%!+ $ ʿ) " $+ ʿ ʿ9ʿ
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7 $+ '(+' () +!$ (')!$ $ $ *'$! '!,O $ ' R !$ *' $'Q"(. *' V' * !$!9'
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+ * + + ' $) $+ + % ($ O' () . ' (*')!$.#) #! ($ %!+ $("*'.!)( )(* % '
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nuncupatur, comitarer: integro die ſubſtitimus in ipſius arce quadam Turnizza, cui contiguus eſt pagus eiuſdem nominis, Muræ amni vicinus, ſupra ipſius & Dravi fluminis confluentes. Iſtîc dum fortè circa ruſticorum prædia obambulo, multas teſtudines palis affixas, & è ſepibus hortos ambientibus pendentes animadverto. In arcem regreſſus, eius rei cauſam percontor: maximè ab incolis exoſas intelligo: ego ridere illorum ſtultitiam: interrogatus an iis veſci cuperem, annuo: ſed cùm nemo ipſas adparare ſuſtineret, cocus quiſpiam Gallus Byzantio redux, qui in itinere nobis ſeſe adiunxerat, ferculum ex illis conficit: veſcor: ibi omnes ſumma cum admiratione me intueri, imò plerique non dubitare quin ea nocte extinguerer: at poſtridie, cùm me non modò vivum, ſed etiam alacrem conſpicerent, multo magis mirari, & plerique aſſerere, etiam è Nobilibus viris qui illum Heroëm comitabantur, ſi Viennenſem urbem præmii loco nanciſci queant, non tamen deguſtaturos.

Turcas viatores admodum frugales eſſe.

CAPVT LXVI.

POSTRIDIE, comperimus agros ariſtolochia longa obſitos: obſervavimus etiam veram Hyſſopum, bina Polii genera, & Chamædryn. Omnia ad victum neceſſaria in pagis invenimus, uti butyrum, ova, aves, panem, caſeum, & lacticinia. Quicumque in Caravanna erant cùm viatores tum agaſones, genus quoddam aceſcentis lactis coëmerunt, nomine oxygala, quod lineis ſacculis impoſitum, è ſuorum jumentorum clitellis ſuſpendere ſolent: atque licet liquidum admodum ſit id lac, lineis tamen ſacculis incluſum permanet, nec exſtillat. Græci & Turcæ alliorum nucleos in ligneo quodam vaſculo contuſos oxygalæ permiſcere ſolent. Magnatum id edulium, adeò palato gratum eſt: eo non modò viatores, ſed etiam ipſi Satrapæ in Turcica aula veſci ſolent. Quod ſi quis adeò eſſe exquiſitum non credat, faciat modò periculum; facilis etenim eſt experientia. Vulgari admodum eſt in uſu apud Turcas, exiſtimantque eo ſe per æſtatem refrigerari, atque per hiemem calefieri. Viam quæ Callipolin ducit, ad ſiniſtram *reliquimus, & verſus Rodoſto perreximus. Interdiu ſubſtitentes ſub juglandibus, ut noſtra jumenta aliquantulum quieſcerent: deinde ſub veſperam in planicie quadam ſtationem habuimus, Caravannæ impedimentis nos in ambitu munientes, ut ſecuriùs pernoctare poſſemus.

** Imò ad dextram: nam Callipolis in Cherſonneſo eſt, ad Helleſponti caput, quam ad dextram relinquere oportuit Perinthum petentibus.*

Turcas agilitate & induſtriâ reliquas nationes longè præcellere, in imponendis ſupra iumenta, deponendisve impedimentis.

CAPVT LXVII.

HOC loco mentionem facere voluimus ejus rei quam Turcas pacis & belli tempore induſtriè adminiſtrare obſervavimus: videlicet rationis qua uti ſolent in impedimentis ſupra equos, camelos, aut mulos imponendis aut auferendis. Quinque enim aut ſex viri duntaxat ea induſtria & agilitate omnia Caravannæ jumenta (quæ centum & quinquaginta numero erant) veſperi impedimentis liberârunt, atque poſtridie ſummo mane rurſus ea impoſuerunt, ut non animadverterimus. Tres ſolùm viri vix quadrantem horæ impendent ad centum equos onerandos, modò ſarcinæ ſecundum ipſorum conſuetudinem ſint colligatæ. Singulas autem ſarcinas decuſſatim crucis in modum per utramque extremitatem colligari neceſſe eſt, atque funes ſequenti ratione appendi. Cùm bini viri ſarcinam ſublevârunt ſupra clitellas, tertius mulio alterius ſarcinæ, quæ adhuc humi jacet, funem, per ejus ſarcinæ quæ jam clitellis impoſita eſt, alteram crucem traiicit: impoſitæ verò ſarcinæ funem, per alteram ejus quæ humi eſt ſarcinæ crucem traiici oportet, & alterum ex his qui priorem ſarcinam ſublevârat, in alia etiam ſarcina ſublevanda auxilio eſſe (ſufficit enim unicus ad ſarcinam quæ clitellis impoſita eſt ſuſtinendam) atque ſingulos, funis quem ſingulæ ſarcinæ unicum habent, extremitatem capere, eamque denuo traiicere per crucis ſummum caput, funeſque deinde adſtringere aut laxare, prout illis commodum videtur, ut ſarcinæ pendeant: funes autem parte ſarcinarum exteriore connectuntur, ut faciliùs veſperi diſſolvi queant; ſarcinæque decuſſatim Burgundicæ crucis in modum ſupra clitellas collocantur. Unicus vir in adventu omnes totius Caravannæ equos ſubitò ſuis ſarcinis liberare poteſt, funium extrema diſſolvendo, atque ipſas ſarcinas æqualiter quaſi ad æquilibrium demittendo. Qui ſarcinas deponit, funem manu tenendo, poſſet etiam ad altitudinem unius pedis ſupra ſolum utramque ſarcinam æqualiter ſuſpenſam tenere. Imò puer quadrante horæ centum equos exonerare poſſet, ſine ullo ſarcinarum damno.

Perin-

Perinthus veteribus dicta, nunc Rodoſto. & de Heraclea.

CAP. LXVIII.

INTER Perinthum & Callipolin ponte amnem quendam trajecimus, quem Arzum eſſe arbitramur, Turcæ Chiaurlic appellant, in Propontidem labentem inter Gallipoli & Rodoſto. Rodoſto autem urbs in Propontidis littore ſita, olim (ut putamus) Perinthus dicta veteribus: tametſi non deſint qui Perinthum fuiſſe exiſtiment eam quæ nunc Heraclea appellatur. Rodoſto vetuſta admodum eſt, nullis tamen muris cincta. Regiâ viâ quæ Byzantium ducit, gradientes, Heracleam ad ſiniſtram reliquimus: etenim ſecundum viam non eſt, ſed baliſtæ jactu ab ea diſtat. Heraclea vetuſtum nomen retinuit: quæ me cauſa movit ut diligenter inquirerem, cur mel cognomine Heracleum perniciosum eſſet. (Variæ autem Heracleæ ſunt, ſed hæc in Thracia eſt.) Nullam aliam rationem invenimus, niſi quòd ea regio Chamæleone nigro abundat, cujus radici excreſcentia quædam adnaſcitur nomine Ixia, quæ perniciosum venenum eſt, & eos qui deguſtant illicò necat. Quòd ſi apes mellis ſubſtantiam ex ejus Chamæleonis floribus ſuſcipiant; non dubitamus, quin id mel hominibus admodùm ſit perniciosum: non ignoramus autem apes mellis materiam ex ipſis floribus non colligere, ſed ex foliis duntaxat, pingui rore cælitus delapſo obſitis. Deinde profecti ſumus ad urbem Selibriam, olim Selymbria dictam. Duorum dierum itinere à Byzantio, atque dimidio miliari à Selymbria diſtantes, in ipſa via & maris littore metalli cujuſdam recrementa invenimus (indicium iſtîc olim fodinas fuiſſe) quæ licet diligenter à nobis conſiderata, cujus tamen metalli eſſent, dignoſcere non potuimus. Ædificiorum veſtigia & rudera quæ iſtîc adhuc ſuperſunt, fidem faciunt metallicas fornaces iſtîc aliquando exſtitiſſe: multis etiam locis conſpiciuntur magni cumuli ſcoriæ, quam Galli *Merde de metal*, hoc eſt, metallicum recrementum appellant. Olim cùm metalla liquarentur, non aquæ adminiculo, ut nunc fit, folles inflabantur, ſed hominum viribus, ut antè diximus: ſunt tamen vicini quidam rivi, quorum uſus eſſe potuiſſet, noſtra opinione, ſi tum temporis conſuetudinem habuiſſent aquæ adminiculo rotas impellendi, quæ folles ſublevarent & deprimerent, quemadmodum jam habemus. Dum agro Selymbriano plantas perquiro, lacte manantem quandam inveni Nerii foliis, & flore ſimili, ſed longè per omnia minorem: procul aſpicienti Tragio Cretico perſimilem; at propiùs intuenti ad Lyſimachiam purpuream magis accedere videbatur. Cytiſum etiam invenimus, cujus ſemen abundanter collegimus. A veteribus illis fodinis ſecedentes, Selymbriam pervenimus, quæ elegans habet caſtellum in edito ſitum. Selymbria, commodè urbs nominari non poteſt, quoniam muris cincta non eſt. Ædificia, balnea, & templa ſupra arcem ſunt: oppidulum ipſum in acclivi, multumque repræſentat Ryam Angliæ urbem, quemadmodum etiam Callipolis. Selymbriâ volenti in regiam viam quæ Byzantium ducit, perveniſe, collis ſuperandus eſt; deinde per planitiem iter faciendum. Maxima ædificiorum Selymbriæ pars longiuſculè à portu eſt. Onerariæ naves Selymbriam magna ex parte appellunt, ut merces excipiant quæ ex Adrianopoli, Thraciæ continenti, & Bulgaria advehuntur. In cujus rei exemplum cùm iſtac iter faceremus, Veneta navis jam oneris expletionem accipiebat ex iis mercibus quæ non modò advectæ erant ex iis quæ nunc enumeravi locis, ſed etiam ex Anatolia vulgò dicta, veluti lanâ, coriis, xylo. Anatolia ſive Natolia ex altera Helleſponti parte eſt: Turcæ dictione Græca Anatoli appellant, quæ Orientem ſignificat: ſed vulgò regiones Aſiæ, imperio Turcæ ſubditæ, quæque ab Europa ſeparantur Boſphori freto, Propontide & Helleſponto, Anatoliæ nomine continentur. Sic cùm Græci Anatoliæ mentionem faciunt, varias alias provincias intelligunt, nempe Phrygiam, Galatiam, Bithyniam, Pontum, Lydiam, Cariam, Paphlagoniam, Lyciam, Magneſiam, Cappadociam, & Comagenen. Atque ſi illis ſermo eſt de precioſis quibuſdam mercibus ex aliqua iſtarum provinciarum, illas ex Anatolia delatas dixiſſe ſatis erit.

Turcarum iter facientium inſigne ſilentium & modeſtia.

CAPVT LXIX.

QVO tempore Selymbriam pervenimus, exercitus iſtîc circiter quatuor milium Turcarum fuit, quibus hoſpitia deſignata fuerant cùm in Carabachara, aliiſque urbis locis, tum extra urbem ſub arboribus. Omnes erant equites, atque in Turcarum Imperatoris, qui bellum adverſus Perſas gerebat, caſtra proficiſcebantur: ii autem diu ante lucem tanto ſilentio diſceſſerunt, ut nos, qui etiam ante lucem diſcedere conſtitueramus,

tueramus, minimè animadverterimus, tametſi eſſemus illis vicini. Hæc res nobis viſa eſt digna relatu, tantam hominum multitudinem ſine ullo ſtrepitu diſcedere potuiſſe. Selymbria unius diei itinere à Byzantio ſolùm diſtat, peraperta regione, & nullis arboribus conſitâ. Bini pontes lignei ſuperandi ſunt tribus cis Conſtantinopolim milliaribus, quorum primus admodùm brevis eſt, alter verò longior multo, Buyckchemeghy nuncupatus. Vniverſa Thracia Picardiæ comparari poſſet: nam arboribus eodem modo caret, magnáſque habet planicies, quas nonnullis locis colliculi interſecant. Pagus eſt inter utrumque pontem: in quo, quoniam frequens eſt admodum via, res ad victum neceſſariæ, omni anni tempore pecunia comparandæ inveniuntur. Vterque pons ligneus exſtructus eſt ſupra ſalſæ aquæ ſtagna, è mari in continentem ingredientia, & veluti ſinum efficientia: iſtic multæ ſunt ſcaphæ, ad homines ex uno pago in alium tranſvehendos, tum etiam ad piſcationem neceſſariæ. Secundum ejus ſtagni quod ad ſiniſtram reliquimus ripas multæ ſunt molæ, octo alis ſive brachiis prædítæ, quales ſunt omnes in Turcarum ditione, quæ venti beneficio verſantur, non quatuor ut noſtræ. Quemadmodum autem bini pontes ſuperandi ſunt; ſic etiam bini ſunt lacûs qui in unum coëunt; quorum cenſus è piſcium captura, magno æſtimatur. Turcarum Imperatoris ædes quaſdam delectationis cauſa exſtructas ſupra pagum Buyckchemeghy videre licet in colle quodam cincto ſilvâ arboribus conſitâ, quæ muro undique clauſa eſt. Ejus arbores ſunt Coryli, Quercus, Vlmi, Fraxini, Salices, Platani, Loti, quæ Gallis *Micacouliers* dicuntur. Tandem ſecundò Conſtantinopolim pervenimus, & noſtræ peregrinationi finem impoſuimus ſub initium Auguſti menſis.

Pera & Conſtantinopolis urbes.

CAP. LXX.

ANTE quàm de Conſtantinopoli agamus, de urbe Pera primùm ſcribere commodum videtur, quæ ſinu quodam vel canali à Conſtantinopoli ſejuncta eſt, quemadmodum plurimas interdum urbes ſibi invicem oppoſitas videmus ad fluminis alicujus ripas, ut Civitas & Carcaſſo, Beaucaire & Tarraſco; eâdem ratione iis qui Conſtantinopoli Peram adire volunt, portus traiiciendus eſt. Propterea eam appellationem adquiſivit: nam Pera nihil aliud ſignificat, quàm trans aut ultra; in collis autem acclivi ſita eſt. Quiſquis peregrinus Conſtantinopolim aut Peram maritimo aut terreſtri itinere advenit, nullum hoſpitium quò divertat reperit: itaque per Turcarum regiones iter facturos, impedimenta in quibus recumbat, ſecum deferre neceſſe eſt. Fieri tamen nequit, quin aliqua ratione tandem hoſpitium nanciſcatur, præſertim cum Carabachara (quæ publica ſunt Turcarum hoſpitia) in urbibus nunquam deſint: præterea nemo eſt, cujuſcunque tandem nationis ſit, qui non magnâ ex parte ædes aliquas nanciſcatur, ſub quarum tectum ſe recipere queat. quoniam plerunque ſinguli ad eos confugiunt, quos ex ſua provinciâ eſſe ſciunt. Hinc fit, ut cùm ſinguli ſciant, omnes Europæ Principes & Reſpublicas, ſuos Oratores Conſtantinopoli habere, præſertim cùm pax inter Principes eſt, eoſque Oratores Rerumpublicarum & Chriſtianorum Principum, veluti Gallicum, Venetum, Raguſanum ſive Epidaurenſem, Chium, Florentinum, Tranſilvanum, Hungarum, atque alios (præter Cæſareum qui in urbe Conſtantinopolitana degit) Peræ maxima ex parte habitationem ſuam habere, ad ipſos confluere ſoleant. At Gallorum peculiariter præ reliquis nationibus, felicior eſt fortuna: quia à noſtro Legato ſemper meliùs excipiuntur, eorumque gratior eſt adventus, quàm reliquorum apud ſuæ nationis Oratores: huc accedit quòd Galli in exteris regionibus inter ſe meliùs conveniunt, & magis mutuò ſe diligunt, quam reliquæ nationes. Domini Aramontii, Regii ad Turcarum Imperatorem Legati liberalitas ea quæ diximus maximè confirmat: nam adeò gaudebat beneficia conferre in Gallos aut Gallorum partes foventes, ut nemo unquam Conſtantinopolim adveniens, cujuſcunque tandem conditionis fuerit, ipſum adierit, quin ab eo humaniter exceptus, & in ejus contubernium admiſſus fuerit. Ejus etiam liberalitas ex eo appàret, quòd magnum Chriſtianorum mancipiorum numerum privatis pecuniis è Turcarum poteſtate liberârit. Imò quibuſcunque Gallis Conſtantinopolim advenientibus, non modò neceſſaria ad victum ſubminiſtrabat, ſed etiam veſtes largiebatur, ſi iis carerent: omnibuſque patebant ejus ædes. Quòd ſi quem Gallum tæderet diutinæ iſtic moræ; illi pecunias tribuebat pro conditionis ipſius ratione, quantum ſufficerent ut in Galliam rediret. Si verò nobili ſtemmate prognatum intelligebat, illo honorificè excepto, jumenta & alias res neceſſarias etiam ſubminiſtrabat. Atque uti nunquam moleſtæ illi fuerunt expenſæ in gratiam eorum qui illuſtri genere nati erant factæ; nunquam ſimiliter tenuis fortunæ hominibus gratificari

dedigna-

dedignatus eſt. Cùm id porrò in nobis ipſi experti fuerimus, non immeritò ingrati cenſeremur, niſi ejus rei teſtimonium præberemus: certi enim ſumus neminem nos mendacii arguere poſſe in his quæ recitavimus, niſi parum æquum, & veritatis hoſtem.

Ruinarum Nicomediæ, & eorum quæ iſtic nunc conſpiciuntur deſcriptio.

CAPVT LXXI.

CONSTANTINOPOLI aliquandiu commorati, ad conſpiciendas Nicomediæ, quæ vetuſtum adhuc nomen retinet, ruinas profecti ſumus. Eſt Nicomedia in edito ſita: murorum ambitus admodum amplus fuit: namque à portu incipiens, etiam collis verticem comprehendebat. Ipſa urbs omnino corruit, ſed arcis ambitus in ipſo colle ſitus, adhuc integer eſt, urbiſque muris includitur: muri arcem ambientes ex coctis tegulis tenaci rudere junctis conſtant; quorum turres dumtaxat tribus orgyis aut ſex ulnis inter ſe diſtant, adeò valida fuit arx iſta. Amœnus ejus ſitus eſt, cùm in collis vertice exſtructa ſit, magnamque ſcaturiginum aquæ commoditatem habeat: quæ cauſa eſt ut frequentioribus habitetur incolis Turcis & Græcis. Epiſtylia & fragmenta columnarum, magnæque hujus arcis columnæ, indicio ſunt, Nicomediam aliquando potentem urbem fuiſſe. Iſtic etiam nacti ſumus elegantia numiſmata vetera, Græca & Latina. Navigantibus ſecundum oram maritimam, & circa littus ſub aquam intuentibus, eos piſces quos Latini Pinnas appellant, humi ordine & ſerie quadam conſpicere licet, quaſi pernas ſuillas in terra defixas: eam ob cauſam Latino etiam nomine Pernæ dicuntur. Cùm aliquandiu verſaremur in inſulis veteribus *Demoneſi nuncupatis, quæ ſunt in ſinu Nicomediæ, in ipſa Propontide, quæque ex urbe Conſtantinopolitana apertè conſpici poſſunt, eas novem eſſe numero deprehendimus. Illarum prima nunc à Græcis Proto appellatur, Altera Bergus, Tertia Iſula del Corbo. Reliquæ exiguæ ſunt, & proprio nomine carent. Aliæ etiam ſunt inferiores & viciniores Helleſponto: ſed earum plurimæ nomina mutarunt. Nam quæ olim Proconeſus vocabatur, nunc Marmara; & Besbicus olim quæ fuit, nunc Calomino dicitur.

* *De Demoneſo conſule Ortelij Theſaurum geographicum.*

Orientales nationes libentiùs piſcibus veſci quàm carnibus.

CAPVT LXXII.

ANTE quàm à Propontidis divitiarum narratione recedamus, quandoquidem ea omnis generis piſcibus abundat, non minorem cenſum illam reddere aſſerimus, quàm Continentis aliqua regio, paſcuis & armentis abundans: hinc fit, ut omnes Turcæ & Græci piſcibus magis delectentur quàm carnibus. Continentis in noſtra Gallia incolæ, qui à piſcium eſu adeò abhorrent, perſuaſione potiùs id facere videntur, quàm ratione. Eos verò intelligimus qui pertinacia quadam carnibus in abdito veſcuntur piſculentis diebus, & diebus Dominicis vix piſces habent quos vorent. Ex veterum præterea monumentis obſervare licet, carnes ab illis tanti non fuiſſe æſtimatas, quàm piſcibus inferiores perpetuò ſint habitæ. Ægypti monachi toto vitæ curſu piſcibus abſtinuerunt quidem, quaſi inferre vellent ſe ejuſmodi deliciis privatos, quemadmodum qui apud nos carnibus abſtinent. Carnium ille contemptus & piſcium æſtimatio, effecit, ut veteres, cùm Græci tum Latini, avium genera minùs noverint quàm piſcium. Medici inſuper in ſuis de alimentis libris varii generis piſcium ſæpiùs meminerunt quàm avium & quadrupedum: neque legimus Imperatores atque Primates Romanos aves in ſuis conviviis ita expetiſſe, ut nos hoc tempore, præter turdos & attagenes. Nam omnis generis piſces in deliciis habebant, & præferebant omni aucupio: ſic ut perdices, phaſiani, aſcolopaces Gallis *Becaſſes*, & illorum *Pluviers*, atque aliæ quæ primum tenent gradum in Gallorum deliciis, in veterum Imperatorum Romanorum etiam profuſiſſimorum, vel ut Pliniano verbo utar, Gulæ procerum conviviis, in precio non fuerint habitæ. Illud præterea addemus, ipſum Turcarum Imperatorem, ejuſque majores, atque etiam aulicos, piſces magis appetere quàm carnes: propterea raro conſpiciuntur in foro Byzantino venales aucupio captæ aves: Quoniam cùm piſcibus abundent, ad eos variis modis capiendos animum applicant, ut poſtea apparebit.

Piſcatio-

Piſcationis in Propontide rationem magnum quæſtum adferre.

Cap. LXXIII.

QVANDOQVIDEM in piſcationis mentionem incidimus, nunc de ejus ratione agemus quæ in Propontide fit, atque primùm de ea quæ majorem quæſtum adfert. Mare Conſtantinopoli vicinum magis piſcibus abundat quàm reliqua maria: idcircò incolæ ad eos capiendos magis induſtrii. Aqua dulcis è fluminibus in Pontum delabens, & marinis undis ſeſe commiſcens, alendis in Ponto & Propontide piſcibus admodum accommoda eſt. Eæ porrò aquæ in mediterraneum mare effluunt, ſed per Propontidem delabentes, nunquam augentur vel minuuntur, utpote nullum refluxum aut reciprocationem habentes. Piſces certo anni tempore ex uno mari in aliud tranſmeant, ſuaſque habent quietis & motus horas: quod non ignorantes Propontidis incolæ, quorum plerique frequentiùs piſcibus veſcuntur quàm carnibus, ea loca maris obſervant, in quibus piſces, eorum judicio, frequentiùs verſari ſoliti ſunt, præſertim circa littora ubi aqua non admodum alta & profunda eſt. Iſtic binas trabes longitudinis mali navium rectas, & circiter quadraginta aut quinquaginta paſſus inter ſe diſtantes figunt, in quarum ſummis tuguriola exſtruunt unius aut duorum hominum capacia, qui iſtìc à ſolis ardoribus & imbribus tuti, piſces obſervare queant. Trabes ligneis palis hinc & inde transfixæ ſunt, quo aſcenſum & deſcenſum facilem præbere poſſint. In edito iſtìc ſtantes, vinetorum cuſtodes imitantur: nam ſi piſcium gregem oberrantem animadvertunt, alter alterum ad diligentem piſcium obſervationem adhortatur; ut ſimulatque eos in aream ingreſſos animadverterint, ſinguli funem ad ſe trahant reti adnexum; quod tali artificio diſpoſitum eſt in imo fundo ſub aqua, ut reti ſublevato, piſces qui in area ſunt, concludantur. Ut doceamus porrò quâ ratione rete diſpoſitum ſit, intelligendũ eſt, illud quadratum eſſe, & ſingulis angulis annexum funibus, binoſque retis angulos, qui à præaltis trabibus longiùs abſunt, longiùs etiam in mare protendi, atque ſummitati duorum palorum in mari defixorum, vix tamen ſupra ſummas undas apparentiũ affigi, ut immobiles permaneant. Alios item binos angulos funibus alligari neceſſe eſt, qui ad tuguriola illa in editis trabibus ſita reſpondeant. Reti in eum modum quatuor angulis extenſo, ejuſque medio ad imam aquam propendente: ſimulatque piſcatores qui excubant, piſces ad ſe advenientes animadvertunt, ſeſe invicem admonent; at poſtquam illos in aream ingreſſos vident, ilico funes attrahunt, piſceſque reti concludunt. Tum alter piſcator, funem ſuum colligat, ut rete ſuſpenſum maneat; perque fibulas trabi utrinque infixas delabens, ſcapham ſuam ad trabem alligatam ingreditur, eamque ſolutam ad comitis ſui trabem dirigit, qui funem ſuum paululum laxans, eum cum ſcapha in aream ingredi permittit: at ille ingreſſus, rete ab uno capite colligere incipit, & ita pergit, donec omnes piſces in unum angulum coëgerit, atque illos in ſcapham recipiens, ad ſpeculam ſuam regreditur, alios piſces exſpectans. Tali inſtrumento varia piſcium genera indifferenter capiunt, uti Sphyrenas, quas Galli Narbonenſes *Peſeſcome* appellant, Melanuros, Lampugnes, Pelamides, Cholios, Auratas, Synodontes, Salpas, Sargos, Mullos, Cuculos, Percas, Saurides, Mænas, Smarides, alioſque ſimiles, pro diverſo anni tempore: ſed præſertim æſtate, quando malacia eſt, nec venti mare turbant. Nam per tempeſtates, excubiæ adeò commodè piſces adnatantes obſervare non poſſunt, ut mari placido, & minimè turbato.

Aliæ piſcandi in Propontide rationes.

Cap. LXXIV.

MVLTÆ ſunt præterea aliæ piſcandi rationes in Propontide, quæ omnibus etiam nationibus communes ſunt, ut ſagena, quam Galli *Traine* vocant, quæ omnium eſt ſecuriſſima ſive facilima, & aliis nationibus etiam nota. Sed quia nulli hujus maris piſcatores ſubere utuntur, ut in Oceano & mari Tyrrheno; nonnulli vulgo cortices quoſdam leves ſuberis vice uſurpant, uti ex pino & pinaſtro, quos ex Ponto advehunt: pleriſque aliis cucurbitæ in vſu ſunt, ut in Macedoniæ lacubus. Sæpenumerò de induſtria Conſtantinopoli egreſſi, Piſcatorum Perenſium ſcaphas ſubiimus, eoſque comitati ſumus, ut piſces qui ad littus inſularum Proconeſi & Besbici, atque in Montaneæ ſinu capiuntur, obſervaremus: nam ſimulatque multos piſces ceperunt, domum redeunt; & Conſtantinopoli divendunt. Piſcandi per Tratte vel Traine, hoc eſt, ſagenam, ratio ejuſmodi eſt: Binis ſcaphis opus eſt, & multis funibus ad rete neceſſariis: littus præterea in quo piſcari volunt,

volunt, æquale ſit, & à ſcopulis liberum: deinde rete explicantes in mare abiiciunt, ſingularum deinde ſcapharum funes extremis retis partibus alligantur; tum piſcatores cymbas ſuas ad littus dirigunt, rete verſus continentem poſt ſe trahentes. Quod ſi funes breviores ſint, quàm ut ad terram pertingere poſſint, remis cymbas impellunt, donec ad littus perveniant: quo occupato, cymbis ſuis, quæ circiter viginti paſſus ab invicem diſtant, egrediuntur, atque rete (cujus funes æqualis longitudinis eſſe neceſſe eſt) æqualiter trahere incipiunt; ex nodis enim qui in funibus ſunt, intelligunt utram in partem rete ſit magis adductum, idque ſibi mutuo indicant. Viciniore jam reti, piſcatores etiam paulatim contra gradiuntur: cumque ad extremos funes pervenerunt, omnes rete apprehendunt, & æquali paſſu in terram trahunt; diligenter animadvertentes, ne piſces ſub retis imo ſive ſacco elabantur. Polypis captis, illorum brachia diducunt & explicant, atque dentibus eorum roſtrum, quod pſittaco ſimile habent, confringunt; niſi enim occiderent, è cymba effugerent. Captis murenis, illarum cervicem ferreis forcipibus apprehendunt, atque fuſte os & maxillas confringunt, totumque corpus contundunt: nam ſi manu apprehenderent, morſu ab illis appeterentur; oblongum enim habent roſtrum, & dentes inſtar aculeorum. Captis paſtinacis, illico caudas præcidunt, quod noſtri Oceani piſcatores facere negligunt, qui ſuis aculeis adhuc præditas Lutetiam & Rotomagum tranſportari curant. Licet autem hæ paſtinacæ nullum nomen Gallicũ adhuc invenerint, Pariſienſes tamen Raias appellant, quòd Rajis ſimiles ſint. Omnia ferè piſcium genera denique capiunt præter Scarum, quem ab illis minimè capi ſcimus. Alia eſt præterea cum quadrangulo reticulo piſcandi ratio, quæ iis duntaxat qui littora Conſtantinopoli vicina accolunt, præſertim ſiniſtra, verſus Hariadeni ſive Ænobarbi ſepulchrum, in uſu eſt. Nam omnia Hiſpanica mancipia, quæ libertate donata, Turcicam religionem amplexa ſunt, ad Propontidis littora ſeſe contulerunt, elegantibus ædificiis iſtic exſtructis, atque hortis inſtitutis: quoniam Turcarum Imperator quaſdam immunitates & privilegia conceſſit iis qui in ora maritima ædificarent. Eam ob cauſam ſupra tigna terræ infixa, atque ſaxa uſque ad marinam aquam aggregata ædificia exſtruxerunt: nam, ut antè diximus, Ponticum mare, Propontis & Helleſpontus, magnaque Ægæi maris pars, nullum penitus habent refluxum, ſed perpetuum profluentem. Rete porrò illud cujus modò meminimus, ad minutulos piſces capiendos duntaxat utile eſt, veluti Atherinas, & Caballons Maſſilienſibus dictos, Romanis Lavarona, alioſque ſimiles, qui littore gaudentes, majores non evadunt: qua de cauſa eius maculæ ſunt admodum exiguæ. Simile eſſet Truble, niſi longè major eſſet ipſius tela quàm illius cujus in fluminibus uſus eſſe ſolet. Ejus quatuor anguli affixi ſunt lignis incurvis, & crucis inſtar tranſverſim diſpoſitis, quorum medio affixum eſt manubrium ſive pertica, quæ trabi erectæ, & in ſummo, furcæ inſtar cavæ, incumbit, & quaſi in æquilibrio pendet, ſic ut reti in mare demiſſo, extrema altera manubrii pars ſurſum attollatur: huic verò appenſus eſt funiculus, quo deorſum tracto, rete ex marinis aquis ſublevetur: tum piſces reticulo comprehenſi, in aëre pendentes manent. Piſcationis in Propontide commoditas & quæſtus adeò Cõnſtantinopolim auxit, ut undique in circuitu pagi exſtruantur. Congri minùs frequentes, quàm in Oceano: eorum etiam capiendorum ratio diverſa eſt. Nam quia Oceanus defluit, piſcatores ſcopulos accedunt, ibique piſciculos ſub lapidibus latitantes reperiunt, maris fluxu in ſicco relictos, nomine Exocetos: hos hamis è gemino funiculo appenſis infigunt, funiculos ſcopulis alligant antè quàm marinæ aquæ refluant. Cùm deinde marinæ undæ ſcopulos contexerunt, congri, raiæ, caniculæque marinæ, hanc piſciculorum eſcam invenientes, cum hamis vorant, eaque ratione ſcopulis alligati remanent. Marinis poſtea undis recedentibus, piſcatores ad eſcam reverſi, piſces in ſicco relictos reperiunt. Natura hunc piſciculum exocetum in ejuſcemodi eſcæ uſum commodè formavit: nam ut in ſicco hærere, & ſub lapidibus ſine aqua latitare gaudet, ſic piſcatores eum invenire norunt & in ſuum uſum capere. Hanc ob cauſam veteres Græci Exocetum, recentiores Glinos appellant, quorum nonnulli in Propontide, criſtam Galli gallinacei inſtar in capite ferunt. Quoniam verò magnis dentibus præditi ſunt, & acriter mordent, Comaſco incolæ ad Padi oſtia, Vulpem nominant, Maſſilienſes Baveeque: at noſter Oceanus nullum illi vulgare nomen adhuc indidit. Altera piſcandi ratio nautis vulgaris, eorum præſertim qui in triremibus & onerariis navibus verſantur, & nunquam ſine retibus navigant, duorum eſt generum. Aliàs enim in aqua explicantur atque ex ſubere ſuſpenſa manent, nulli rei affixa: aliàs gemina ſunt atque duplicia, in quorum maculis piſces per marinas aquas oberrantes, ſæpiſſimè ſeſe implicant, atque capiuntur.

Piſcandi noctu ad lumen cum tridente ratio: varij alij in Propontide piſces capiendi modi.

CAPVT LXXV.

PONTVS Euxinus, Boſphorus, & Propontis ſemper in eâdem undarum altitudine permanent; quorum accolæ piſcandi rationem admodum quæſtuoſam noctu ad lumen ejuſmodi obſervant. Bini viri cymbam ſive navigiolum leve & exiguum occupant: alter binis remis hinc inde diſpoſitis cymbam impellit: alter in extrema cymba genubus innititur, tedamque accenſam habet, ex cymbæ orâ prominentem; quæ quoniam piſcatoribus vulgari in uſu eſt, per fora venalis invenitur, atque vulgo Dadi appellatur. Qui hujuſmodi piſcationem inſtituunt, Lunæ ſplendorem non deſiderant: nam quò obſcurior eſt nox, eò piſcatori commodior. Is porrò qui genubus innititur, fuſcinam quinque aut ſex hamatis cuſpidibus conſtantem manu tenet, & ſedulò in aquam oculos intentos habet: ſi piſcem quieſcentem obſervat, manum ſublevat, comiti, eâ apertâ aut clauſâ, ut cymbam aliquantulum promoveat, aut retro impellat, innuens: ejuſmodi enim ſignis intelligit quò cymbam impellere debeat. Sermones inter ſe commiſcere illis non licet: nam aëris in aquam repercuſſio, ad dormientium piſcium aures penetraret, illique excitati fugerent: etenim nonnulli piſces alii aliis faciliùs audiunt. Eapropter adeò lentè cymbam impellunt, & leniter remos aquæ imponunt, ut piſces non exaudiant. Neceſſe eſt etiam deligere tempus nullo flante vento turbatum, placidum mare, & locum non admodum altum: piſces enim non libenter quieſcunt alto gurgite, tametſi quieſcendo terram contingant, aut alicui ſaxo incumbant. Eos autem non minùs quàm terreſtria animalia dormiturire certum eſt: nec deſunt qui ronchos ducentes exaudiverint. Nam quemadmodum nulla animalia cerebro prædita, ſine ſomno vitam traducere queunt: ſic piſces cerebro præditos ſomno refici neceſſe eſt. Quod Plinius Ariſtotelis auctoritate fretus ſcriptum reliquit: tametſi Actuarius auctor Græcus dormiendi appetitum in ventriculo collocet. Piſcator igitur dormientem piſcem animadvertens, magno impetu tridentem ſive fuſcinam (quæ hamis recurvis conſtat) in ejus dorſum vibrat, prout videt piſcem vel ſibi rectè oppoſitum, vel obliquum: & confixum in cymbam attrahit. Ea piſcandi ratio ad lumen cum tridente, ad polypos, loligines magnas & parvas capiendas maximè eſt accommoda, tum etiam ad alios omnis generis piſces ſquamis præditos, veluti lupos, umbras, mugiles, ſynodontides, erythrinos. Hamo etiam piſcantur in hunc modum: Ducentos aut trecentos hamos longa quadam ſerie ex fune quem cucurbitæ ſuſtinent, pendentes diſponunt, quibus eſcam è carnibus aut piſcibus conſtantem affigunt: eum deinde funem noctu ad integrum vel dimidium milliare in mare deferunt, iſticque tota nocte relinquunt, ut piſces qui cibum quærunt, quales ſunt murenæ, ſquatinæ, caniculæ, raiæ, atque alii ſimiles, hamis capti hæreant. Poſtridie mane, niſi tempeſtas impediat, hamos, quos è longinquo propter adnexas ingentes cucurbitas ſtatim agnoſcunt, repetitum eunt, & prædam domum referunt. Quædam urbes Italiæ ſunt, in quibus unicus vir quinque aut ſex lineis eodem tempore piſcatur, quas pontium ligneorum rimis infigunt; nam dum eſcam ad unam apponendo occupatus eſt, reliquæ trabium rimis infixæ, tantundem præſtant, atque ſi ipſe piſcator eas manu teneret: nam interea dum piſcis in una capitur, reliquis eſcam apponendi ocium habet. Scombros in Propontide capiendi ratio plurimum ab ea differt quam in Oceano uſurpant. Nam qui Scombros in Oceano capere vult, lineas pendentes per tempeſtatem ducere debet: quanto etenim vehementior eſt tempeſtas, atque navis majore impetu vehitur, tanto uberior erit captura. At Græci ſagena duntaxat aut reti eos capiunt. Nullus piſcis frequentior in foro Conſtantinopolitano conſpicitur Glanide; quâ Iudæi non veſcuntur, quia ſquamis caret. Vulgò etiam conſpicitur Xiphias ſive Gladius. Turcæ, Græci, Iudæi, & reliquæ Orientales nationes Delphino non veſcuntur, quem tamen Galli eo tempore quo carnes interdictæ ſunt, in deliciis habent, & vulgò *Marſouin* appellant. Duorum verò eſt generum: nam quem *Oye* appellant Galli, legitimus eſt Delphinus, uti in libro 1. de Piſcibus abundè demonſtravimus. Certum eſt noſtros Celerinos eos eſſe quos reliquæ nationes Sardinas & Sardellas appellant: omnes enim notas cùm in Propontide tum in Oceano examinavimus; nec ullam inter eos differentiam invenimus, præterquam in ſolâ magnitudine. Olim liquor quidam, nomine Garum, non minore in uſu fuit apud Romanos, quàm nunc Acetum apud nos. Sed etiamnum tam frequenti in uſu apud Turcas eſſe deprehendimus, quàm olim fuerit. Nulla enim piſcatorum officina Conſtantinopoli eſt, quæ venalem non habeat. Hi Veteribus Cetarii dicebantur: apud Gallos nondum

nomen

nomen Gallicum invenerunt, niſi quis Harenniers appellare vellet: vulgarem tamen apud Italos appellationem invenerunt: Romani enim Piſcigaroli nominant, voce ex piſcibus & garo formata. Piſcigaroli Conſtantinopolitani, magna ex parte in Pera habitant, & recentes piſces ſingulis diebus apparant: nam vel frixos divendunt, vel exemptis inteſtinis & capitibus, muria macerant, & in garum reſolvunt. Plurimum tamen intereſt ex quo piſce garum fiat: nam ex ſolo ferè Trachuro, quem Veneti Suro nominant, & Scombris, commodè fieri poteſt. Garum veteribus tanti æſtimatum fuit, ut Plinius exquiſitum liquorem id vocârit, nec ullum penè majore in precio eſſe Romæ dixerit. Præterea ait, varii generis id eſſe. Credimus quidem etiam ex piſcibus ſquamatis parari poſſe. Vt autem demonſtremus Iudæos ab omni antiquitate in victus ratione ſummâ abſtinentiâ uſos eſſe, ipſius Plinii *Lib. 31. cap. 8* de hoc garo ſcribentis verba in medium proferemus. Aliud verò ad caſtimoniarum ſu- » perſtitionem, inquit, etiam ſacris Iudæis dicatum, quod fit è piſcibus ſquama carentibus. » Niſi nobis conſtitiſſet, illos adhuc ſuperſtitiosè obſervare ne garo vulgari utantur, hæc non protuliſſemus. Peculiares enim habent apparatus in eorũ gratiam factos; quemadmodum confectum illud ex ſturionum ovis, quod omnes Caviar appellant, adeò vulgare in Græcorum, & Turcarum menſis, ut nemo ſit qui eo non veſcatur, exceptis Iudæis, qui ſciunt Sturionem ſquamis carere. Sed qui Tana incolunt, quum magnam Cyprinorum quantitatem capiunt, eorum ova adempta ita ſalire norunt, ut optimi ſaporis Caviar rubrum ex iis conficiant in Iudæorum uſum, quod Conſtantinopoli venundatur. Hæc peculiariter deſcripta ſunt binis libris, in quibus omnium piſcium icones exhibuimus.

Vetuſta monumenta, & alia ſingularia quæ Conſtantinopoli conſpiciuntur.

CAP. LXXVI.

CONSTANTINOPOLITANA urbs eo loco ſita eſt, ut commodior ad Monarchæ alicujus magnificentiam in univerſo orbe inveniri non poſſit: nam ſummam habet maris commoditatem. Nihil illîc antiquius conſpicitur, quàm id quod Romani Imperatores, deinde Græci erigi curârunt. Atque hoc addimus, unum Conſtantinum pluribus Antiquitatis ornamentis Romam ſpoliaſſe, ut Conſtantinopolim ornaret, quàm viginti alii Imperatores centum annorum ſpatio exſtruxerint. Quidquid etiam iſtîc elegantis atque vetuſti operis conſpicitur, olim è Romà tranſvectum fuit. Inter alia, columna eſt ex porphyritico lapide, non procul à D. Sophiæ templo. Eſt præter hæc Hippodromus, opus magnificum & ſumptuoſum, in quo duo ſunt obeliſci; quorum alter marmoreis lapidibus ferro & plumbo colligatis conſtans, olim æreis laminis inauratis tectus fuit: alter, nec is integer, ex Ægypto eſt advectus. In eo etiam eſt æneus ſerpens, opere fuſili, ingentis magnitudinis, columnæ inſtar erectus. Conſtantinopolis ſeptem montes murorum ambitu non minùs claudit, quàm Roma. Triplici muro cincta eſt: ſed eodem tempore eos non fuiſſe exſtructos appâret: nam pleraque marmorearum columnarum fragmenta interjecta conſpiciuntur, quæ indicant feſtinanter opus peractum fuiſſe. Divæ Sophiæ templum, pulchritudine omnes quæ adhuc extant ſtructuras longè ſuperat, etiam ipſum Romanum Pantheon: nam tota templi interior pars in fornices exſtructa eſt, ſuperiore parte patentes, & lucem admittentes, quæ columnis è ſelectiſſimo marmore variorum colorum confectis ſuſtinentur: ſuntque in eo templo (ſi licet dicere) tot portæ quot in anno dies. Quoniam verò in Turcarum phanum ſive Meſquitam ceſſit, Chriſtianis ingredi non licet: ipſis tamen & Iudæis toto corpore in templum producto ex portis interiora ſpectare permiſſum eſt. Quiſquis id templum viderit, Romanum Pantheon, vulgo S. Maria Rotunda appellatum, admirari deſinet. Imo miramur Pantheon adeò extolli, cùm ejus ſtructura tanto ut prædicant artificio non conſtet: nam quilibet vilis etiam faber murarius facilè & ex tempore illius fabricam animo concipere poteſt; quandoquidem ejus baſis adeò firma, muri adeò denſi ſunt, & ex omni parte ſolidi, ut difficile nobis non videatur fornicem perviam ſuperædificaſſe. At D. Sophiæ templi alia eſt ſanè ſtructura (foris quidem cocto latere uti Pantheon conſtans, & interiùs marmore incruſtata) ampla & latè patens, & tenui materia undique exſtructa. Turcæ ad ejus exemplum ſuas Meſquitas ædificarunt; nam circiter ſex admodum ſplendidæ & magnificæ intra centeſimum annum ad D. Sophiæ templi exemplar ſunt factæ. Vetuſti cujuſdam palatii rudera conſpiciuntur, quod vulgus Conſtantini palatium appellat. Turcarum Imperator in eo ſuos elephantos atque alia mitia animantia alit. Vicinus Hippodromo locus eſt, vetuſtum olim templum,

in quo Imperatoris Turcici fera animalia adſervantur: ad hujus ſingulas columnas, leones alligati, quod profectò ſine admiratione conſpicere haud potuimus; quandoquidem ſolvuntur, manibus tractantur, denuò alligantur, atque nonnunquam per urbem etiam circumducuntur. Quia porrò omnes Turcarum Imperatores, quantumvis etiam barbari, ſingularibus & raris animalibus delectati ſunt: ſingulæ provinciæ ipſorum Imperio ſubditæ, ſi ferum aliquod animal capiant, Conſtantinopolim mittunt, quod Turcarum Imperator ali & ſedulo curari præcipit. Iſtîc catenis alligatos vidi Lupos, Onagros, Erinaceos, Hiſtrices, Urſos, Lupos cervarios, & Lynces: imò minuta animalia iſtîc etiam ſedulò aluntur, qualia ſunt Pontici mures Latinis, Ermines Gallis dicti. Erant præterea bina animalcula, felibus adeò ſimilia, ut ab his differre niſi magnitudine non viderentur, quibus veterem appellationem adaptare nullam potuimus: Aliquando Lynces eſſe exiſtimavimus, quoniam pantheram pro lynce ſumebamus; tandem imaginari nequivimus, quænam eſſent animalia. Mirum ſanè eſt eos adeò leniter omnia hæc animalia curare, ut maximè domeſtica reddant: imò ipſas etiam Genettes Gallis nuncupatas, (quarum iconem ſubiicimus) liberè per ædes vagari non minùs quàm feles permittunt.



Ceterùm cùm Pera & Conſtantinopolis unica ferè urbs ſint, ſolo portu diviſa, ſæpe traiiciẽdum eſt. Eam ob cauſam frequentiſſimi inveniuntur navicularii, (magna ex parte miſera mancipia) qui homines hinc inde tranſvehant. Qui verò è navibus in officinas onera tranſportant, omnes ferè ſunt Ægyptii, octoni aut deni ſimul conjuncti proficiſcentes: nam cùm plerumque magnas graveſque ſarcinas, quales ſunt quæ navibus vehi ſolent, educere, atque etiam vaſa vino plena portare debeant, illa geſtare ſolent pendula, eandem vocem & ſimiles accentus perſonantes ſimulque æquo paſſu gradientes. Multi ſunt Conſtantinopoli opifices, varias artes mechanicas exercentes nobis ignotas: cùm enim typographica careant, omnes in papyro expolita & levigata ſcribere ſolent, quæ apud illos quidem non conficitur, ſed ex Italia advehitur. Papyrum levigare volentes, aſſerem ſibi comparant ex buxi fragmentis ſimul glutine junctis conſtantem, nonnihil interiore parte concavum, cui papyrum levigandam imponunt; deinde chalcedonio lapide ſive iaſpide per medium baculum cubitalis longitudinis trajecto, ejus extremitatibus manu apprehenſis, papyrum buxeo aſſeri impoſitam lapide confricant, atque expoliunt. Turcæ ſuos enſes, quos Cimeterres appellant, geſtare gaudent, non lucidos ut nos, ſed damaſquinatos ut vocant, hoc eſt, utrinque ſubcæruleos: ejus rei gratiâ armorum expolitores ammoniacum ſalem cum ærugine æris in aceto macerant in vaſe aliquo, deinde enſis mucrone impoſito, ſublatum tenentes, illam mixturam integro die per enſem defluere ſinunt; nonnihil enim exedit ferrum ſive chalybem radiatim ſecundum longitudinem, cui magna venuſtas ex politurâ poſtea accedit. Qui cultrorum & enſium vaginas conficiunt, magnâ induſtriâ corium quaſi granis quibuſdam obſitum parare norunt, ut aliàs dicemus. Apud Turcas, nobiles gemmæ non minore, imo etiam majore ſunt in pretio, quàm apud nos: & plura genera apud illos inveniuntur, quàm apud noſtros gemmarios; è quarum numero eſt ſpurio nomine Lachryma cervi nominata, & alia Sultan Meheure dicta: ſed de his aliàs plura. Plurimæ ſunt officinæ, quarum domini ſolis lineis telis vario colore depingendis ſeſe & familiam alunt: qui quoniam ſuum opus ſubitò & magnâ facilitate peragunt, ejus modum hîc declarabimus. Primùm omnium telam xylinam vel lineam, pulte ex amylo facta inducunt, eamque ſive flavi, ſive cærulei, ſive alterius coloris ſit, validè extendunt, levigant, atque expoliunt: ligneam deinde formam elegantibus aliquot floſculis inſculptam, colore inducentes, (quemadmodum operæ typographicæ ſolent) lineæ telæ ita tenſæ imponunt, premunt, & fricant; quâ ratione pergentes, elegantes operas ſine moleſto labore abſolvunt.

Muſicum inſtrumentum apud Turcas invenitur ex arundinum calamis confectum; quod inflatum, non minùs elegantem reddit harmoniam Germanicâ fiſtulâ. Turcam forte ante Domini Aramontii ædes tranſeuntem, & hoc inſtrumentum inflantem ſemel audientes ego & reliqui qui in legati triclinio erant, Germanicâ fiſtulâ ludere exiſtimavimus: ſed è feneſtra proſpicientes, obſervavimus id inſtrumentum, eadem ratione confectum, qua fiſtulæ eorum qui animantia caſtrare ſolent, quatuor tamen & viginti calamis conſtare, cùm illæ decem & octo ſolummodo habeant. Qui ipſe non audiviſſet, vix credere

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queat ex tam vili & ſordido inſtrumento, adeò ſuavem harmoniam prodire poſſe. Cui otium eſt viſitandi eorum officinas qui Conſtantinopoli cultellis manubria adaptant, magnam varietatem dentium & cornuum animantium conſpiciet: nos enim iſtic bubalidis, gazellarum, & aliorum variorum animalium cornua obſervavimus ex Ponti Euxini littori vicinis locis delata: duo præter hæc dentium, Elephantis videlicet, & Mors, Gallis *Rohard* vocatæ belluæ genera; aliorum etiam animantium, quæ vulgare nomen nondum invenerunt. Qui legitimum Calamum odoratum deſiderabit, in mercatorum officinis Caſſabouſerire* petat, & pro Acacia, Akakia pronunciet, Acacalis Keſmeſen; Amomum Amama; Ammi Ameos; Napellus Biſch; Saccharum Alhaſos, Tigala; Harmel Armala; Ben albi & rubri radices Behen amer & Behen abias: nam quas Ben album & rubeum eſſe arbitramur, plurimum abſunt à veterum deſcriptione. Hebulben ſemina venalia habent, quæ nobis in uſu non ſunt, quemadmodum nec nux quædam gemini pugni magnitudine, parvis granis eſui aptis atque avellanæ inſtar dulcibus, plena, quam Coulcoul, hoc eſt, nucem de Coulcoul nominant. Qui Calamum aromaticum noſtrarum officinarum expeteret, Acorum ab illis petendum eſſet. Colocynthide cui cortex ſit ademptus, non utuntur, ſed integrâ, magno errore. Ubique venale reperitur Terebinthi granum viride, & ejus reſina dura. Bryon iſtic etiam venale eſt, à noſtro arborum muſco longè diverſum. Fallimur enim qui noſtrum muſcum Vſneam eſſe arbitramur; eam ipſi Vſnech nominant. Auctores Ponticum Abſinthium commendant: id in Conſtantinopolitanis officinis non modò venale, ſed etiam uſurpatum vidimus: ſed omnibus notis cum noſtro vulgari hortenſi conveniens, nec ab illo differens, niſi quòd Ponticum ſponte naſcens invenitur. Et nobis admirationis cauſam non levem præbuit, pleroſque in noſtra Europa, id Abſinthium in dubium vocare, ineptamque quandam herbulam Abrotoni potiùs genus, & nullius efficaciæ ei ſubſtituere maluiſſe, quàm vulgari uti, quod legitimum eſt Ponticum; ſimili errore implicati quo Veneti, qui legitimi Hyſſopi loco, herbulam quandam, magnâ quantitate in Forojulienſis provinciæ montanis creſcentem, in uſum receperunt, potiùs quàm domeſticâ & cultâ uterentur, levi & tenui errore in multo graviorem commutato. Conſtantinopolitani, qui tam diverſis aromatum & ſimplicium medicamentorum generibus in ſuis officinis abundant, ut mera ſit confuſio, neque ſilveſtri neque domeſticâ Hyſſopo utuntur, niſi in penuriâ; (eam enim pro Thymo habent) ſed ejus loco inutilem quandam herbulam veteribus ignotam uſurpant. Sic Thymi Cretici nullus apud eos uſus, ſed veram & legitimam Hyſſopum ejus loco ſubſtituunt. Rhaponticum nanciſci qui volet, Rhabarbarum ſibi demonſtrari curet (nam id diſtinguere non norunt, cùm utrumque Rhabarbarum nuncupent) atque radices oblongas & foris nigras, interiùs verò Centaurii majoris radicibus ſimiles ſeligat. Certum enim eſt, ſatis magnam eſſe inter Rhabarbarum & Rhaponticum differentiam. Quia autem de utroque, tum etiam de omnibus animalibus, plantis, & medicamentis in Commentariis quos Gallicâ linguâ in Dioſcoridem ſcripſimus, agemus; plura non addemus, ſed finem priori libro imponemus.

* *Hæc vox corrupta eſt ex Avicennæ* Caſſab & Aldirira *(quod referente Garcia, Calamum ex Aromatibus ſignificat) vel Serapionis* Aſſabeldiriri: *aut Bellonius mercatorum vocem non rectè expreſſit.*

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R " F!).!)! * !)!$Q" .))(+) Q" (.)$(!# (" $ % * ".(5 .Q" N
O # !%)

" ˁ ˁ < < A ˁ < <
!% ˁ(Q" ," + +) $ $"$Q"(*ˁ (*)$ˁ $(*"$ˁ $+"))ˁ#! " $ 1ˁ"ˁ +ˁ%())9
)*< 0ˁR "ˁ ' $"ˁ% ˁ%0ˁ/(.." ˁ)"ˁ$!*0(ˁ%",) *ˁ"ˁ# ˁQ"(ˁ(+ˁ*". ("*ˁ$!9
0("*ˁ " ( )!R$!$ *ˁ# 0 $ Q" (ˁ "*ˁ%() $!$ˁ#"+ (ˁ % (ˁ$!, ˁ+ +) $ ˁ
_$+ ˁ0 ,ˁ+ +) % ˁ ' $" ˁQ"ˁ $ˁ /(.. (ˁ$!$ˁ0 ' % ˁ("ˁ0 %("ˁ%" %. ˁ#%) "*ˁ
(0 "*ˁVˁL #)$ "*ˁ /(..)($!* $()"*ˁ0) "*ˁ$!* $,")!..((ˁ$.ˁ(. ,ˁ+ %) # (ˁ
$0 $ % ˁ< +ˁ) *ˁ $ˁF"0%*!+ˁ ˁ..ˁ(+1"* $!ˁ%" *" ˁ)"ˁ$!$ˁ(R$!%) ˁ< + *ˁ
)!$ $R ˁ#!%. ˁ+ˁ(,! ," :$%ˁ)* + ˁ(, $!ˁ!))" *" C$(*ˁ"ˁ$ Q" ˁ ' a
)(ˁ$ Q") $ "*ˁ%) # ! "*)!** $ (Q" +Q"(*ˁ("' . ˁ(+% ˁ0(." "$ ˁ)ˁ$ a
Q" ˁ "ˁQ"ˁ $R $ ˁ. , ! "*ˁ*". "+ $ ˁ "* ˁ $.. ˁ $0 $ ˁQ"(. (ˁ,)ˁ. R ˁ ($+ *9
Q" ˁ%(ˁ)!R ˁ(ˁ$!, ˁ+ % .*#%% ˁ +ˁ($ˁ ' % *(ˁ$! ˁL$%ˁ(,ˁ ' ˁ (ˁQ"ˁˁ+ ˁ(,!a
," ˁ. R +!+ˁ % *" \ˁ+) ˁ("%" ! ˁ% # $"* !ˁ ˁ%(.1 ˁ+"*ˁ(. (*ˁ# !ˁ(. (ˁ%"* <
B" ," ˁ0 ,ˁ ' < $!$ˁ ˁ%($ˁQ"ˁR (0 (*ˁ# !% $ " C $(*ˁ+ ˁ "%) ˁ ," ˁF ˁ
(R " ˁ +* (!$ ˁ+ R$(# !% +, ˁ % ˁ#! F !#F (% "*ˁ$)ˁ !** $ (!
G$)ˁ ") !) ˁ$)ˁ $ # ˁQ" +Q"(*ˁ!,% 0( )ˁ#! " %.)ˁQ"!+ˁ . "*ˁ%"R ˁ ˁF!)ˁ
(Q" & !,. *(+ .) ˁR $" $(*ˁ ' ˁ /(..) (## ..(!$ * VC AAA 2 46ˁ$"$)"#(ˁ
$!$(" * 0 55:6:$(*ˁ)"* $ $)". ˁ$(%)(" ˁQ"ˁ* ˁ+ #. " (##)..($!$ ˁ) !9
($ˁ ++ + % ˁ$%ˁ ' $ˁ "%)ˁ< (R$"*ˁR ")!$ * ˁ.(,! ˁ$+) "*ˁ % ($ˁ(. ˁ
%", ˁ!,ˁ"$ "ˁ(,! ˁ!,% 0(!$ * "*)Pˁ ($ˁ0 .ˁ()% *( )"*ˁ 6*ˁ*(R$!ˁ)!$% 9
) ˁL (,ˁF!* $")!$ ", $!% R R($ Q" ˁ%!. "+ $ ˁ(*($ ˁ $ˁ$!$ˁ*(R$(ˁ%" ˁ0%9
"*ˁ)" (ˁQ"ˁF!* $ ˁ(+ˁ%"**! ˁ ! " ˁ! , ˁ*!$ ˁ(,. R("$ ˁ"ˁ(,!) ˁ !,% 0(9
$ˁ< R ˁ+"!ˁ (' $ˁR $ (ˁ, $(ˁ .* ˁ ! + *ˁ . (ˁ(ˁ F !#F (% !ˁ+ % # (ˁC% +ˁ
Q"-)$(*ˁ (ˁ%"$ <F(, *"Z$ ˁ. (ˁ($ˁ$!$<$ *!ˁ) $! "ˁ+) ($ "*ˁ(, %ˁ"ˁ(. ˁ R$!9
ˁ.") $ˁ(+% (ˁ&." ˁ R "ˁ(C% *($+"*ˁ % (ˁ0 0(ˁ!)". ˁ%",) ˁQ"(*ˁ ˁ% $# ˁ
..("*ˁ* $!$ *ˁ%() B *+ˁ* $ * # '% (ˁ#! " %. *" %$ ' ! "*ˁ(" ' . !: $ˁ
!Qˁ#."$*"*ˁ$! ˁ1"0 "ˁF!* $ ˁ + !*(ˁ $ ˁ ˁ#.($ ˁ+ %% $ W ˁ / ( ) ˁ RW9
ˁ# ˁ !F * (. ($$ ˁ $R. ˁ (, ˁ F !#F (% ˁ$ # ˁ% $, C (# $" ˁ(,ˁ) 9
ˁ ˁ+% ˁQ"!+ˁ) ($+ +(ˁ$ 0((Q" ˁ*(((# $!(" *ˁ%.(0() .#(Q" ˁ +ˁQ" 9
+ *ˁ $ˁ* + "*ˁ# !% *" ˁ$!$ˁ"ˁ!% $ *" ˁ$! ˁ ($(*ˁ. $R"(*ˁ$!$ˁ R$! (ˁ% +ˁ
"ˁ 0 $)(*"ˁ (# $ˁ*( ) *ˁ%.(0(1(ˁ) %#(*Q" ˁ %. ˁ+ ,)CQ"(C $! (ˁ$!% !ˁ ' "
% 0 ˁ % W(ˁ* $ * ˁ)!$0 $ ˁ#!%."$ ˁ +ˁF!) ' *#." (ˁ(++"+"*ˁ % !ˁ $(. ! "*ˁ
)!*# !,(!$)*ˁ B" %Q" ˁ(" *ˁ! + $ *ˁ0$!, ˁ!,% 0("*ˁ $ˁF ˁQ"(C($ ˁ $ˁ.")) (ˁ
! "F*")"*ˁ !Q" *ˁ$!$$".. ˁ#!% (ˁ (+ *ˁ)'#!. $!,L 0("$ ˁ)!$% # (ˁ
$!% !ˁ)!$%"%"*ˁVˁ*(. ˁ+ R % "*ˁ $0 $ CQ"!+ˁ $ˁ$!% (*ˁ ')"%(!$ *ˁ+ +"*ˁ0!.!ˁ
Q" $". (*ˁ* F!+"*ˁ(+ˁ(,! ˁQ"!+ˁ($ ˁ $ˁF ˁ& !,. *(ˁ!,% 0(0 *" ˁ
B" +ˁ# ( )(ˁ)'#))Q" ((+ˁ# !,($+"*ˁ $ˁ!*$"*ˁ "*ˁ!,% 0(!$)(+F , $9
+((ˁ)%)ˁ+ . R $ (* ˁQ"(*ˁ7 .#F $ˁF % ! (*< "*)$ *ˁ $ˁ$!% # % (!$," % 9
Q" $ %. *)(# (" $. (.) ˁ(+ , (" %ˁ"ˁ %)ˁF(, ˁ$!$#! " ˁ(+ˁ '# * $9
+(*ˁ.. ")!$ *: "1"ˁ ˁ% + *ˁ%() ˁ#!%."$ˁ# +" (C# ! ' * $+ ˁ(..(' ˁ*(R$!ˁ) 9
ˁ%"* ")!*#(('CQ"(C % %)($ " ˁ, $)%) (ˁ % $+(ˁ %. ˁ ˁ[Q" ," ˁ()) # (ˁ%"$ ˁ
V#. (Q" $"$(# !0 $) (0" R((%. ˁQ"(C $ˁ(. ˁ ((ˁ% $ ˁ (Q" ˁ $ˁF!)ˁ !#"%)".!ˁ
$R ("+ $ $! (ˁ "+! ˁ$"$Q"(*ˁ* ,())"%(#! ˁ ˁQ" *(+*!+"*ˁ% # !ˁ
* $ * !#" ˁ%" %. ˁ(+ˁ# %"(+ $+"*ˁ /(.. ˁ #%! "*ˁ 9:' " ' ˁAˁ & !' = '!!"0) a
"*ˁVˁ) $! "*ˁ7 .#F $"* $%ˁ+%%)". (ˁ%" %. ˁ $ˁ)(ˁ ˁ# !,($+(ˁ% $ ˁ% # !C (ˁ
FG("+ˁ!#" ˁ (ˁF"$)ˁ#)". (*ˁ. ,).."*ˁ%) ,)ˁVˁ*". (ˁ+ .) # (!$ ˁ $ˁ !ˁ $%)))ˁ
(+ˁ# !,($+(*ˁ% .0 % "*ˁ (,! "*ˁ))" (!$ ˁ%() . (h0ˁ$%ˁ% "#". ˁ%",! ˁ %. $ˁ
Q" ˁ$!$+"*ˁ%" ˁ '#.)(ˁ "*ˁ R "ˁF ˁ. , .."ˁ+0. .0)% "*ˁ(,! "*ˁ)". " (ˁ "
0 !% %.,ˁ(R(ˁ+"!ˁ $% *"ˁ "Q" ," ˁ+"#. '" . (ˁ)*($(, C "(. !ˁ. (ˁ0 ˁ$!9
b0("*ˁ "*ˁ) $ (*ˁ(+ # %) $ " "(. !ˁ "%)ˁ) $%" ˁ("R $+ˁ (!$)*6 $. R $C
..!ˁ(,! "*ˁ$K ()ˁ.."% (!$ ˁF!)ˁ0 ,ˁ (")". " (C# (C) # :Q"("*ˁ "*ˁ% $ (ˁ
%"(ˁ) (Qˁ0!.ˁ"#1 (ˁ$!$ˁ)(, ˁ *!ˁ %ˁ(+ ,ˁ "+ ˁ $R $ ˁ "%)" Q" ˁ R$! !* $ ˁ
% # ˁ (+) ," ˁ (* ˁ%!. ˁP ˁ% "+"ˁ# (+ (ˁ %. ˁ VˁQ" ˁ ..(ˁQ"($+!ˁ!#" ˁ % (+ˁ%""*ˁ
"%" #ˁ())!**!+($!$ˁ$! C% +ˁ$!$ˁ %ˁ(R % $R)$)("*+ % $ (ˁ+!)) ˁVˁ
Hˁ+ ˁ ("*ˁ$(" (ˁ+ %) # ( )ˁ B"(C!* $ (ˁ$"..(ˁ (!$)ˁ+!)) #! " ˁ) "$ˁ(+ˁ %#",. 9
)(ˁ" . (ˁ)+) C$(*ˁVCF!* $ ˁ% $ ("*ˁ (0 + $+ ˁ)!**!+"*ˁ( ) # Q 0P0ˁ
%"**(*ˁ" . (*ˁ ˁ ," ˁ%() . ," ("*Q" ˁ)". " (ˁ+ %"* ˁ*(R$(ˁ)"R ˁ%() . (;ˁ
JVˁ% $ ˁ '# $%)!$. Q4 $ " ˁ +ˁQ" *(+*!+"*ˁ $ˁ+). , (!$," ˁ$"..(ˁ*(1! ˁ+ %%ˁ>ˁ
)". (ˁ!$ ˁL,.) Q"(*ˁ) *ˁ!,ˁ '# $%("*ˁ*(R$ "+ $ *ˁ!#"ˁ *# % +"*ˁ . $Q" Wˁ
)!R *" .(,! "*0 ˁR (0 (W! . # (*ˁ.!$R %"# (C%)ˁ (,)!$ $R ˁ" 00!."# ( )Aˁ
" . ( )!$1"$+(*ˁ$(M$) %)ˁQ" (*" ˁ" ())(*%"**(ˁ+ %%)". (ˁ $ˁF!)ˁ $ 9
d 4 !!,1)LL>:($ *# ˁ "+!) ($"..!* *! (, . ˁ,)$ %) !ˁ(+1" " ($)G(,(. !ˁQ"!9
(*

(*ˁ%) # ! ˁ +(*ˁ *ˁF()ˁ (!$ ˁ (0((*ˁ%" L. ˁ ($ˁ! ,ˁ)("L(* GF("+ˁ$ $! ˁ
*(!$ ˁ) $% $+"F ˁ)ˁF!)ˁ# !#!% " *)" *)(" ˁL) # Q"'ˁ . " *ˁ * ". " *ˁ1"O( )ˁ
#! ") $) ˁ E2 ˁ O ,ˁ R)!.(*ˁ)!$% ($ *ˁ A ˁ! * $ ˁ * ! 'ˁ !. ($ *ˁ % +))) +" *ˁ
) * #" ˁ# '%. " " *ˁ '%#)+ (:. ˁ) (*ˁF!)ˁ) # !ˁ +!) ,"$ " ˁ $ˁ! * $ ˁ)". "ˁ !. ($9ˁ
(*ˁ .)ˁ(+F , $+(* ˁQ"($+!Q" + *ˁ . ˁ ($ " *ˁ) *#! ˁ(+ˁ! , $ $+(*ˁO!."# (*ˁ
)" *ˁ") . ( )!$1"$.(*ˁ)!$) + " ˁQ"($ " *ˁ '.# +(ˁ%,0$ ˁ ˁQ"ˁ+) * !Q"!Q" ˁ
%!." * * !+!ˁ($$!ˁ%"(ˁ._O(ˁ) '+"$ ˁ ") $%" *ˁ 'ˁ . ˁ()) # ($ ˁ $)" *ˁ F!)ˁ ' * 9ˁ
#." *ˁ.(0 ! ˁ" ˁ . ˁ# !, * " $"..(*ˁF(, ˁ)(".(* ˁ)" ˁ ! ˁ + " ˁ * ! 'ˁ '+ + 0ˁ
, (+" * @(,! Q" ' . # !#!$ $ " % $. *ˁ ') .)) # * $ ˁ ! (! *ˁ+ ˁ
)"1" Q" ˁ .. # ˁ$(" (ˁ% ! . *ˁ * $!$ *ˁ%() * " ˁ(Q" ˁ+ ˁ 1" ˁ)". " ((R * " C 'ˁ
Q"(" *ˁ(. (ˁ F)!)(ˁ 'ˁ(. (ˁO ,ˁ# (' ˁVˁ"." ˁ+ .) ˁ#! CˁF()ˁ (Q" ˁ (!$ ˁ+ .)!Gˁ
(!$ + ˁ (R ! " *)". " (! " * Q" ˁ)! * * !+ f Vˁ+ ˁ%"," ,($! " *ˁ# '+ ! " *ˁ
) $%" ˁ(,ˁ ˁQ" 'ˁ+ ˁ$(" (ˁ # " *ˁ +)! " *ˁ * ! ˁ(R"$ ˁ% 1"$R * "

' ˁ(4'> ˁ ' ˁ ˁA ˁ '>?& ˁ& ˁ
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& % ˁ

Oˁ ˁ)ˁ ($ * " *ˁ(+O ˁ $ˁO !ˁ1"+.) !ˁ ' R" ˁ * ! * $;ˁ ˁ %ˁ (!$ * ˁ
O! +!))) Q"(O(ˁR $O ˁ $R".(Q" ˁ(,! ˁ $R". ˁ($$ ˁ * (R$" *ˁ W!9ˁ
, ˁ))$%" * (..(" (1 $." * "(. #! <ˁ$!$+"!+ $(ˁ$!$) $ $(ˁ% +ˁ
* .. $(ˁ !#" ˁ (*ˁ . W+)) $ * .. $(< " ! * $ $ Q" 0 1"%+ *ˁ$(9ˁ
" ' ˁ$ Q" ˁ 1"%+ *ˁ+ " " $ (ˁ * :ˁ)ˁ (*ˁ(. "+ $ ˁ $ ˁ. + "$ ˁ !+)" *ˁ
) ˁO!,)) $. ˁ (, ˁ$!$ˁO".R(ˁ.!$R "+ $ Q" ' (* $"%+ # * ($ $) *ˁ ˁ
* ". ˁ * #. ˁ/ (.. ' ˁ (. ' (Q" ˁ/ * ($ ' ˁ " $ˁ $ˁ R" *ˁ#(.(ˁ #!$ "$ ˁ%"# %ˁ
! $ ' "L ! " * %(,)((+" , ˁ $ˁ)!$O(.. ," Vˁ $ ˁ * !$ ˁ (ˁ", ˁ(,! ˁ
$ * * $.(*ˁ (. "+ $ *ˁ ')).) ˁ%!. $ ˁ * (1")ˁ $ˁ * + " *ˁO!, ˁ (+% ˁ ˁ
(+ * (!$ ˁ+ R$(ˁ $ˁ+" + * ˁ (' ˁ $.)".# (ˁQ" 'ˁF! * $" *ˁ( ) ! $W $ ' @%"F .ˁ
(* Q")ˁ * (." *ˁ$(O ˁ)!$.#)))ˁ+") $ ˁ(" ˁ) $)", ˁ.!$R" * ˁ + Fˁ ! ˁ "#)9ˁ
(ˁQ"!$ (*ˁ (" ' !#" ˁ ˁ ˁ%!. +" *ˁ.(' " *ˁO + ˁ(ˁ ') %" *ˁ.!$R " ˁ(Q" ˁ#(.Oˁ
" Q"(*ˁ"..(ˁ(,! ˁ"$Q"(*)!$.# +( ) ˁ $ˁ (+ * (!$ * # !)".+", ! (# Q" ˁF' ˁ
.)R $ C " *ˁ (* $) " *ˁVO " * # !,(#! 'ˁ ˁQ" 'ˁ (*ˁ$"$)ˁ "# %"$ ˁ
!,). %) ˁ$ * " * ˁ)!." * $ Q" ˁQ" 'ˁ ! * ' ˁ " $ˁ 'ˁ $R $," ˁ !.! ˁVˁ&W ($ + ," ˁ
(RW# () ˁ)ˁ%(, " *ˁ. R$(" *ˁ)! * # ..!) +)@ ˁ , ˁ#!. ! $+ .(' (ˁ (, ˁ.!F9ˁ
R !) ˁ(Q" ˁ (ˁ ! ˁQ"($ˁQ"(ˁ"$Q"(*ˁ 'ˁ"..(ˁ(,! ˁ $ˁ(. Q"(*ˁ%(,)(*ˁ $% ˁ#!3ˁ
" <ˁ +") $ (. !# ("+() ! (% '$)" " ˁ + * !. " * # (" *ˁ 0($ˁ
Q" ˁ($ * !ˁ)! * # F $+ ˁ * .) *ˁ *ˁ ˁ#!. <ˁF()ˁ (!$ ˁO((ˁ $O $ (+ O ., "$ ˁ
').(! " *ˁ( )" *ˁ $R $! (+ˁ!# (" * $) *ˁ# +")"$ " ˁ B"($+!Q" + *ˁ(" *ˁ
* . (ˁ!# (ˁ$"$)!)$+ Q" "$ 3)" $(* F($).("+ *ˁ(," 0ˁ (*ˁ ˁF")Q" ˁ * 3ˁ
#) " *ˁ+ + :ˁQ" ++ ˁ# * ˁ $O $! +) <ˁ. "+ˁ R " ˁ +! ()) # ! ( ) ,ˁ
#!. ˁ+ * !$ (ˁQ" ˁVˁ)!$) $+(ˁ%".) # $ 1Vˁ(+ˁ(,.,." !$ *ˁ#) +") $+ ˁ (!$) * ˁ
$O $ $) ˁB" ˁ " %) ("ˁ(,! " *ˁ)". " (*ˁ+!)" "$ $".. " "$ ˁ"%" ˁ $ˁF!)ˁ '$ ˁ
) !C$(ˁ(. (ˁ+ ˁ .O) $," ˁ(. (ˁ+ ˁ% "+ % ˁ ˁ. * !$ ˁ $ " ! ˁ $!$ " (*)$ˁ $"9ˁ
" ˁ)"." ˁ$ ˁ)) $!) .("+O+ R$" ˁQ" ˁ% "+ % ("ˁQ"("$+(*ˁ(,! " *ˁ ". "Gˁ
(*ˁ+ .") +!ˁ! + $ ˁ (+ + Q"(. ˁ.!$R('#)$ (ˁ+ +) (Q" *ˁ$! . #((*ˁ $ 9Oˁ
(, * " :ˁ$ Q" ˁ $ *ˁ $ˁF!)@!#" ".!ˁQ" +Q"(*ˁ # " ˁ (!$ O) ˁ(" ˁ !." *)..' ' ˁ
(" ˁ&. $ 1 ˁ(.%! " * Q" ˁ * F" *ˁ(" ! " *ˁ $. ˁW!." * " Oˁ$ ˁ", ˁ# " *ˁ ("+! () ˁ
!#" ˁ) ˁ" ˁQ" +ˁ .O ˁ+) $+" *ˁ ˁ# !, * " ˁ * !ˁ (" *ˁF(L $" ˁ $O $ " ˁ %ˁ
Q" ˁ(,! " *ˁ)". " (*ˁF()ˁ (!$ ˁ+!)" $ * # " ˁ .O ˁ .O $," ˁ.! ˁ)!$. Gˁ
($ " ˁF!)ˁ ˁ" ˁ .O) ˁ# ˁ%ˁ))" $ " :ˁ$ Q" ˁ (*ˁ)" Q"(* & $) # ˁ (. ˁ(+F")ˁ
!#! !ˁ%(+(ˁ ˁ ('ˁ%"$ ˁ(,! " *ˁ(. "+ $ CˁVˁ+ ˁF ˁVˁ !ˁQ"!+ˁ (" *ˁ $ˁ# ˁ Gˁ5
1 " ˁ" ˁ ("$ˁ$((. ˁ * ! , ˁ)" (!$ ˁ(Q" ˁ ' " " * ˁ(. (ˁ+ .) # (!ˁ $)" " Cˁ
O D(* " ˁ+ +" * R ..(*ˁ$"$)ˁ $" * (ˁ * $ * ˁ)"G# * " Q" 'ˁQ" ," ˁ# !O $) ˁ
<)". ((ˁ%. $ 9ˁ" ˁ ' * #. ˁR (($!$$"..(ˁO(.. ˁ $%". 'ˁ !)W 'ˁ $ˁ/ (%) (ˁ!. ˁ * # ˁ
" $," ˁ!, (ˁQ" ', ("+ˁ $ˁ$ $! *ˁ(. "+ $ *ˁ)'))"$ ˁ DX"(*ˁ$! 'ˁQ")" ˁ
O $ ˁO ! , $ F ˁ$! (ˁ."R.($+ 'Q"($," ˁCOV:L", ˁ(,! ˁ(+ˁ.()" *ˁ ! Gˁ
"O * ˁ$"$)O#(" * ", X , ˁ !$) (!$ (R !ˁ ! * ($! * ". !ˁ * (1! ˁV (* #. Q ˁ
$($C Q"; *ˁO " +ˁ$! ˁ "..'ˁ . * ˁ)!$.#) ˁ#! .$ C $ˁ " ˁ(+ˁ #(ˁ * ($ ˁ ()" ˁ) @O
Gˁ .(%!. ;

_ ^ˁ 0 ˁ 0 C C B ˁ C C
.(%!. ˁ(,! ˁ * (R$(ˁ(Q" ˁ (* !%(Cˁ Q" * (+ * !+" *) _ * $" * # +" (&.(($! ˁ
Vˁ ! ! ˁ(#"+ˁ" , *ˁ $!)F (*ˁ ($ˁO(% (ˁ $(R$ "+ $ ˁ " ˁO % * . ˁ% ˁ (ˁ % [ˁ1(*ˁ
($ ˁ * ". (ˁ %())".(ˁ) !$% (ˁ %% ˁ Vˁ%! ˁ(, ˁ #%(ˁ ! * ($ˁ * # "ˁ (* #. "+ $ Cˁ$(*ˁ)" *ˁ
%)"$+ *ˁ#",.)(*ˁO (*ˁ (ˁ+ % $," (ˁ% :ˁ) " *ˁ %ˁ (ˁ %)ˁ) '# % ˁ #!% (ˁ !$9ˁ
% + (!$ ˁ (*ˁ+ R$(ˁ %ˁ (% . $% ˁ . (ˁ B")" ˁ $ˁ.("+ $) * ˁ#($ ˁQ"(*ˁ (ˁ $R a
$ ˁO ˁ (+($" ˁ . , !ˁ+ ˁO " $ˁ ( ) (ˁ * ". " * ˁ # (:+)(ˁ ". (ˁO !ˁ (. (ˁF"1"%9ˁ
* !+ ˁ $" * (ˁ#!%. * " ˁ%ˁ$) . ˁ %)

ˁ &(ˁ! "ˁ& ˁ &$ ˁ& ˁ (%ˁ(&ˁ ' &/
ˁJ + ˁ '(ˁ!& %ˁ ˁ ' %ˁ! 'ˁ ˁ ' 4&

ˁ " &

2% ˁ "$Q" (*ˁ $O $ " ˁ % ˁQ" ˁ (*ˁ)!." ˁ$ % ˁ #)ˁ" . (ˁ +ˁ (. "+ˁ % ˁ
& $) # ˁ (. "+ˁ "%) ˁ %"$+" * ˁ)!.) ˁ O!)(" ˁQ" +(* ˁ " ˁ * (R$ ˁ)"1"%+(* ˁ
& $) # ˁ * ! ,!ˁ *)+ " ˁ " ˁ# (* ˁ%"(* ˁ ' !.. ˁ $ˁ ' $!+!)F !ˁ (* ˁ
)G)" . +) ,(:("+ +!$ " * ˁ %. #!%. Q" * # (* ˁ(+)" ($+! $ˁ ' $!+!)F !ˁ * ! 9ˁ
,! ˁQ" ˁ (+ˁ& $) # ˁ)" (* ˁ%"%) # $+(* ˁ $ # " ˁ). ˁ f()%ˁ+) ˁ+ O A(* ˁ $ˁ" !Q" ˁ
)" (% + ˁ (!$ * ˁ %. ˁ% Q" $+(* ˁ)Q" '+(*)". " (O!."# (ˁ V ! $(_ ˁ R ((ˁ $%. 9ˁ
" " Cˁ(. (ˁQ"(% " ˁVˁ) ! * * !+ ˁ) (".(C()ˁ%ˁ(. (* ˁ %.)ˁ !#! ˁ)". " ˁ (!$ * ˁQ"(ˁ
(+O!."# (* ˁ V[illegible]#)".! " * ˁ!,.)% (!$ * ˁ% :+ O %(* ˁO !ˁ Q"(< " . (ˁ R ((ˁ%"% # 9ˁ
." cˁ B" ˁF"1" + . , (!$.)!#" *) !$% + (, + R$" * ˁQ" ˁ (ˁ& $) # ," ˁO %!O (9ˁ
" ˁ+ # F + ˁ)Q" Q" Q"(* * %) (ˁ#! Q" (ˁL . " * ˁ $ˁ.") * ˁ # !+")$+!ˁ
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Q"(*ˁ ..)! $ * "$)(0 ..) # #!+) Z. + $($ $" * $+") ˁ B" ! +ˁ#))"9ˁ
5ˁ# $" (*ˁ $)" ˁ$"..(ˁ0!, ˁ (!ˁ .1Q"($+!Q" + *ˁ%" * " ˁ $ˁ(+ %)($+ ˁ * " ˁ
%(ˁ0! ())"%($)Cˁ (ˁQ"!ˁ$!+!ˁ + ˁ+ ,)(ˁ R$! (:ˁ, $ˁ R!ˁ+) ˁ B" * (+ * (9ˁ
+" *ˁ R " ˁ( ) ˁ * $! (Q" ˁ(+ ,) (ˁ ($+ *ˁ ""$ ˁ$ ˁ $)!.(ˁVˁ0 (ˁ #(ˁ #%(ˁ (9ˁ
* $ˁ .." ˁ$ (ˁ $) * $ " *ˁ(R Cˁ. ˁ (0(ˁVˁF!0 ˁ.ˁ)". " (ˁ(,. ˁ+ . (ˁ+"$:)!$5ˁ
0ˁ)'+"(ˁ. .0(ˁ* . ! ˁ ++"$ " ˁ ˁ $)". (ˁ* ($ ($ Cˁ, $ ˁ$!$$".. ˁ+((ˁ ..ˁ(+* (96ˁ
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,! " *ˁ((*ˁ)" *ˁ, ,(" *ˁ(0!ˁ)!$% (* :ˁ(,! .!$R0ˁ ') .. ˁ * (1! ˁ)! * 9ˁ
* $+(!$ ˁ+ R$(ˁ) ˁ * (1! !Q" ˁ) $%" *ˁ VˁQ"(.." *ˁ (+% ˁ)! * #) * " $($ˁ
* $" (ˁ,(ˁ, , ˁ($$"(ˁ%(!$ ˁ)!$. 0($+ˁˁ%"$:ˁ(. !Q" ˁ.ˁ$ R. R(ˁ $) +"$ ˁ ˁ(90ˁ
,! ˁ)" *ˁ. $)". " (# * ($ ($ ' R"0ˁ)" (ˁ $+ R $ * (R$(*ˁ (* $ˁ " . (*ˁ(+9ˁ
% "$) ˁ B" '(+ + $!)! * #". " $, ˁ 7 .) # (!$," ˁ(,! ˁ(.. * (* " 0ˁ
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" ˁ+" ." *ˁ ..ˁ. .0 (,! A)" ($+ˁ (!$ *ˁ +!) $ ˁ ˁ#!.. (# !% ˁ* *! (9ˁ
, . VCˁ+ R$(ˁQ"(%)F ..! ˁ$!% ˁ *#! ˁ $. ($ " Q" 'Q" ˁ# !ˁ! + $ ˁ (#$1ˁ# !9ˁ
#!. !$ ˁ R ˁ%(0! ˁVˁ(" ' . !ˁ, ("+ˁ $+ R$ ˁ ,+)(ˁQ" ($ ˁ & !ˁ, ˁ $ *ˁ # ," ˁ
+))ˁ("+ , *ˁ" ˁ (ˁ0 + $+ ˁVˁ)!R$!.) $+ˁ+ ..+ " * ˁ * (1! *ˁ,")ˁ) # !ˁVˁ.(, ! ;ˁ
!))(. !$ *ˁ# (," . Q"(*ˁ .Q"(" *ˁ) $ (ˁ#(" *ˁ.."+ (ˁ &! !ˁQ" * (+ * !+"$\
&, ! ," ˁ0 ˁ& $) # ˁVˁ .."% ˁVˁ ! * $ " *ˁ0 $(! " *ˁ ! W#F(" ˁ+)ˁ %"1 ˁ)($," ˁ+ 9ˁ
) ˁ ,.)" ˁ ()C. ˁ, !).!)!ˁ+ ˁ.. # ," ˁ+)ˁ#!..) ˁ# !ˁQ" ," ˁ$ * !ˁ%! ˁ(. " ˁ ($ " *ˁ
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ˁQ"($+!ˁ $(! ˁ% (C0 .. R (ˁ # ˁ')ˁ)($ ˁ)!$0!)(VˁQ"'ˁ)! * * !+(ˁ0 +)9ˁ
,"$ " ˁ0 ,(ˁ# !% ˁ+ , Cˁ)($ ˁ !ˁ()) ˁ, Q$"." *ˁ..(*ˁ!+! (,"$ " ˁ ˁ R " ˁ,(2.ˁ
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" ˁ%"$ ˁ0 .. R (ˁ !+! (" ! ˁ)ˁ* ! R ˁ "$ ˁVˁ" ˁQ"Sˁ0 . * " ˁ0 $ ($ ˁ +!) $ "
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.!)!ˁ0 .. * ˁ) (*ˁ ˁ$"..(ˁ(+ . $ˁ0 + R (ˁ +ˁ +ˁ #.,ˁ#! " ˁ%(+!ˁQ"(*ˁ0 # !ˁ ! ˁQ" ˁ
$!$ˁ0 + . $ˁ +!) ˁ#!.)*ˁ ˁ%($ ˁ# .% * ˁ0 $(!$ *ˁ $% ""$ ˁQ" ˁ$ * " *ˁ.!Q"(9ˁ
)) ˁ%"$ ˁAˁ).(* !..C$(*ˁ)($ ˁ$ * " *ˁR(". ˁ ($ˁ)(*ˁ,+ *ˁ$!$ˁ (+F , $ ˁQ"(*ˁ () 5ˁ
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+! ˁ) 'F! ($+! . C% +ˁ +ˁ * !+ (ˁ, ˁ+ , ˁ ˁ* ,). * ˁ)($," ˁ# $+!ˁ
.!Q"! ˁ()ˁ, ! * $ C)" * Q" ˁ+)! ˁ# !R + ˁ R + ˁ,")ˁ(+ˁ* G $ ˁ, !)ˁ(R)1ˁ* ˁ $9ˁ
) .. R"$ ˁ* . "%Q" ˁ* (ˁ* ($+((ˁ# (R"$ ˁQ"(*ˁ ".." ˁ * ! " *ˁ+! * +.)! " * ˁ +ˁ
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>5 ˁ&, ! ," ˁ +ˁ(+ˁ $+ " (*ˁ! (!$ *ˁ + "$ +)(* ")" *ˁ R . ! ˁE &ˁ4 ˁ
0 &ˁ (*ˁQ" * (+ * !+" *ˁ0 $(! ˁ $+(R $) *ˁ $+ " ˁ$!$ˁ+ , ˁ, $ ˁ)! $"ˁ3,+ˁ
Q" ˁ,")ˁ+"+ !ˁ% . ˁ(##.)(ˁ%"(ˁ $+ " * $ (ˁ,(, ˁ$) . ˁ +C !)ˁ ..ˁ)" *ˁ, ,(!9ˁ
$) * $+ " * $ * +! * !)') +) ˁ+ , ˁQ" $ˁ% " *ˁ (+) " $+(ˁ+ # ˁ $+ "9ˁ
* $ " (ˁ.())"." * ˁ((* $ " (#(#W " * (Q"),(.W,) *ˁ)') ($+!ˁ R$ˁ (!$ " *ˁ. Gˁ
)" *ˁ+ % (ˁ (Q" ˁ, ("+ˁ+", "% ˁ)+ ˁ$ * $ *ˁ, ()ˁ' (ˁ, ˁ)!$%". +ˁ+ ˁ(,! ," ˁ(R 9ˁ ˁ
ˁ$ Q" ˁ%! , ($ˁ(. " ˁ * ˁ '+ $+.!ˁ%")) + ˁQ" ˁ(,! " *ˁR ((ˁ,($)ˁ# !0 $) (*ˁ %".)9Gˁ
ˁ0 . ˁ,$ ˁ * (1! ;ˁ("' . !ˁ , R ((, !#, (+" *ˁ% * # $) (# %!$(.!9ˁ
Q" $ *ˁ)! * # (" :ˁ"$+ ˁ)!.. R ˁ#! +ˁ " *ˁ * (R$!# ˁ(+1" " * ˁ" ˁ5+ˁ(,! ˁ# 9ˁ
Q" $+(ˁ(. ! ˁ(,. R(ˁ#!. ˁ (ˁ%"$ ˁ $Q" ˁ(,! ˁQ"(:ˁ ,. Q"(ˁ%: "$ (Q")ˁ $9ˁ
) (X ((( ) * ˁVC: ! " (*) $L) ˁ +ˁ)" *ˁ,)ˁ $ # *ˁ$! W(R(* " ˁ
% +ˁ+ .) # (!$ ˁ+"$ ('(F"1" + ! * (L$ * #) / (..) \ˁ) ("%($+ "(((,!) ˁ . ! ' ˁ
Vˁ % ") ˁ ,. Q"(ˁ% $ ˁ (#,W.!+ $+ !$ ˁ (," $" * Mc) $(* (! $+" * ˁ 6] ˁ
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$ (#"+ˁ !$,(.)!$$(% $ * ˁ (+ (*ˁ ,." 0(*ˁ $(RW *ˁ) [* ˁVCˁ ,! *ˁ
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,(%) ˢQ")($ ˢ$..ˢ)(.+!0ˢ ' !.. ˢVˢF"* +!ˢ.!)!:ˢQ"'ˢ)!$++ (!ˢ.!$R ! ˢ(+F")ˢ
(. (ˢ+ .) # (!$ ˢ#(ˢ (*ˢ%ˢQ" ˢ $ˢ (, (*ˢO .ˢ RW# "*ˢ# !%) %)(" ˢVCˢ
%.C)$!% ((,! (O). '# * $ (%! . ($ˢ $O $ ˢ 1"ˢ R !$ ˢ $)!. ˢ)!$9ˢ
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I)($+ ˢ(+O $ "*ˢ $ˢ #%! "*ˢ R !$ * ˢ$!$ˢ* $! *ˢ .. ˢ" . (*ˢ(".. ˢ!,ˢ)".9ˢ
" (*ˢ "*ˢ 'ˢ $+ (ˢVˢ . (ˢ+ .(("* ˢQ"(*ˢ *)($ ˢ $)". $ˢ %#($ ˢ "..9ˢ
($ ˢ / (._ ˢQ"ˢ $ˢ+O %(ˢ$!Oˢ , ˢ R !$ ˢ(##". "$) (%Q" ˢ*". ˢ ," ˢ*(2ˢ
RQ (*ˢ" . (*ˢ(+% $," ˢ ')!." "$)ˢ +ˢ# *" 110!*$ "*ˢ% * $(ˢ%"$ˢ)!*#(9ˢ
($)O + $+ ˢ ,."*ˢ# !ˢ)(C.ˢ *# ˢ())!**!+($+"*ˢ !. ˢ# O((!ˢ(+ˢ% * $(ˢ
') #O$+(ˢ)"*ˢ (ˢ#" R(!$ ˢ)!*#((, ")" ˢ"$ O .(ˢ($ *(. (!,$!' (%"$:ˢ$(Wˢ
) (*% #) F")$(" (. ') !$ˢ%",1 +(ˢ .)!$%#) *" ˢ *ˢL(. O($ˢ(,! ˢ
.(ˢ +!) $ Q"(ˢ# '#(() !$ˢ (ˢ$(" (ˢ+!$(CQ"!+ˢ()) + ˢ%!. ˢ($ ˢQ"(*ˢ (9ˢ
C"*ˢ%.! '#.) $ " Q" *(+*!+"*ˢ $ˢ($ *(. ," ˢ)"*ˢ. , + $)ˢ $) F.(ˢ%" ˢ Q"!ˢ
_ˢ +)! " ˢ%)F!.(:ˢF(""$)ˢ# $R" + $ *ˢ$!$ˢ . ˢ#(*ˢ($ *(. ˢ ˢ+)ˢ(,! "*ˢ%(Gˢ
. O(+)ˢ#!%% ˢ *ˢ R " !*$ ˢ ˢ($ *('ˢ% "ˢ*! "# '+ 'ˢ% "ˢ*! " ˢ'# ˢ"ˢ
$(" (.;ˢ#" R(!$ ˢ% %ˢ# '#($ ˢ!,$!' 'ˢ%$Qˢ) "*ˢ %ˢ ($+ *ˢ %%ˢ)"*ˢ($ *(. ," ˢ
VF!* $," (,! "*ˢ (!$ * Q"'$(" (.;ˢF"* +(!$ ˢ# '#(($ " ˢQ"(. *ˢ# !ˢ
% ($(ˢ)+!) , *" ˢ !$% + ( )ˢ(,! ˢ) !ˢ *#! ˢ%#() !ˢQ" % ˢ(Q" ˢ%!. (ˢ
(,) ˢ$!$ˢ%))" ˢ()ˢ($ *($ ˢO .ˢQ"(+ "# + ˢO .ˢ, # + .ˢQ"("*ˢ ..'ˢ# .! ˢ*" ($ ˢ
F(Cˢ# $$(ˢ(Q" ˢ) ((ˢ% # $ ˢ '"O (.ˢ)ˢ#.($ [illegible]#!% Q"(*ˢ(ˢ#("ˢF * ˢQ" O "$ ˢ
%!.+ ˢ+ $"!ˢ% %ˢ! $($ ˢ# 'R$($ ˢ% ˢ# *($ $ˢ.! " ˢ($$ˢ $)Cˢ% +ˢQ" *(+9ˢ
*!+"*ˢ#.(($" ˢF * ˢVˢ% R! ," ˢ)! *ˢ(,) %)ˢ + ()F$ ˢ'% (ˢVC# ˢ'% " ˢ
", ˢ(" *ˢ$!O!ˢO ˢ+O % ˢO+ .) ˢ($$ˢ *#!$," ˢ ". 'ˢ (* $ˢ(,! ˢ** 9ˢ
$ $," % R! ," %!. (ˢ$!$ˢ(,) "$ % +ˢ . (! (ˢF * $ $ + *Q*ˢ$!O!ˢO ˢ
ˢ% %ˢ%#!. ($ ˢ . 'ˢO ,ˢQ" F" ˢ%!. (ˢ+) +"(ˢ'% ( )ˢO (ˢ(,) "$ ˢVˢ%)* $)!$% 9ˢ
O($ ˢ F"1" O 'ˢ (! ++Q" (ˢ * . ˢ %ˢ$!$$"..("*ˢ "$ˢQ"'ˢ $ˢ#)". (9ˢ
(ˢ($ *($ (ˢ)(+"$)!$% + (!Cˢ$(*ˢ) O #.(W) ! F$$". ˢ(Q" ˢ%! % ($ˢ) (*ˢ
(* .![illegible]#(+(. ˢ ' ˢ*(R$!Q" ..ˢ($ *(.;ˢ .) % "1" ˢ)! $"(ˢ $ˢ. * $ ˢ%() ˢ%() ..ˢ "9ˢ
R ," HQ" *(+*!>F*ˢ(. " ˢ * ,!% ˢ)!$%#) "$ " \ˢVˢ ##).(#F!ˢ)! $"(ˢ+) 9ˢ
+"$ Cˢ)!$ (ˢ !$!) ! ˢ)#%) ˢ (R .(#F ˢ/ (] ..'ˢ F $!) ! ˢ)ˢ) *ˢ
+!* %) ˢ 1(*ˢ% .O % !O) 6Da ", (. O) VCˢ "% *!$ (ˢ$!$ˢ(,) "$ ˢ
S$$ ˢ R!ˢ+ *ˢ(,! ," ˢ# '#((!$ ˢR ((ˢQ"!+ˢ$!, ˢ)!$ $R ˢ<ˢ !.!ˢ*($+(ˢ
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/ ($(! "* ˢ(. ("*Q" ˢ% * . ˢ. Q"! ˢ(Q" ˢ (*ˢO"("*ˢ% * $," ˢ($ˢR (ˢ%(#! ˢ
% "+" F(, " ! O!) + 'ˢ(,! ," ˢ$+ # !R$($ % # ")(%")". ˢL..ˢ(,! ˢ
) 'ˢQ"(ˢ% * $(ˢ+ %"*% % ˢ% * . ," \ˢ $% (ˢ<ˢ . O(ˢ% ˢ$(% $ " ˢO!, ˢ . (% ˢ 'ˢ
) 'ˢ& ˢ (. %O ˢ!# * ˢ%")) (%# ˢ% .O)%)%Q" ˢ$(% $ " Cˢ (Q" ˢ)(ˢ$% :ˢ$) %% ˢ %
M ($ˢ$! ˢ))" (!$ *(## ..(*" ˢ(*ˢ$!O!ˢO(ˢR $ ˢ $% !$"*ˢ(+".) ! Q"(. ˢ
$ˢF! (."$ " ˢ (ˢ% ˢ)!R *" ˢ % *! (. +% #. $("*+".) + $ $% !$)*ˢ 9ˢ
) #) $ X$(" O* Q"'ˢ# % ˢ(R % ˢ % $)$ C%)VC($ *(. (%) (*(F $ $ %) 9ˢ
)" $ " (Q" ˢ% * . (,! ˢ$ %ˢ $% !$ ˢ)". "*ˢ)) # ($ ˢ (+ *ˢ R " %ˢ (!ˢ
($O7Q"ˢ ..(* +!+" ˢ %ˢ ˢQ"(. ˢ%")". $(,! ˢ% .O % ˢ $% ˢ +$ (ˢ# *(!ˢ
F!% !ˢ *.F" !.!$R " + %) +(*" $!, ˢO !F("+ˢO " Q"S++ %, . ˢ# '#((!$)ˢ
"$)* R *" ($ ˢQ"(*ˢ(+ˢ% * $((ˢ# !) +(*" Q"(%ˢ R$! (*" ˢ)". "*ˢ
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)$ *ˢ 1" ˢ$ # ˢ ($" ˢ.!Q" " C> ˢ ˢ '%! '%ˢ !!' C %!)ˢ % ˢ' +ˢ
(ˢ ' ˢ ! 'ˢ'5 ' %ˢ) %!& ˢ!' ' ' :!% ' ˢ /+ ' '%ˢ !'
' ' (/)+ !.% (ˢ Q"$! % (ˢ R . ' V(. (ˢ% * . (ˢO!)(,(.(ˢ%""*ˢ.! " ˢ
F(, ,"$ ˢ $ˢ)". " '#.($ ("*ˢ '#.)(!$)ˢ *ˢQ"($+!Q" + *ˢ$"$5ˢ+)ˢ%..O %ˢ
Z#"ˢ% # ," ˢ(R *" ˢQ" ˢ(R)!.(ˢ%,."*ˢ%)! (O)ˢ(" ˢ%(O ˢ" ˢ%#!$ ˢ(+!. %)) O
[illegible] Iˢ I [illegible] $ %

%.%ʿ# ! ," ʿ ..)". ! $(" (ʿ<# 1! Q")+*ʿ))" ($+)ʿ%"$)ʿ ($ *ʿ)!$+ !ʿ% ʿ$!$ʿ ʿ
+ , ʿ !ʿR ʿ "%.) ʿQ" ʿ%" * * ! . , ! ʿ% "" * ʿ) $ ʿ ($ʿ" $(*)(;) * ʿVʿ
(. (ʿ F"1"% $!+ʿ# ʿ(R ! ʿ" ", ! % ($ #(R #!Z $ ʿ 1" (!$) *ʿ ++ % ʿ<
ʿ ($ʿ$).) ʿ F $)ʿ+) Cʿ$ *# ʿ% "R ʿ(,! ʿF ,(ʿ . Q"(Q" ʿ F!)$% (ʿ) (ʿ
(+) ʿ%#(R) $) # "$ %() . " ʿ# !O)$ ʿ% %!." *ʿ# (1#(() !$)ʿ)(. + " ʿ(Q" ʿ* !.. " ʿ
)++(" C# $+ ()% ʿ#." * (+ % ʿ$!% $(. " * "%" *ʿ *#!$) $ " Q"(*ʿ " ʿ)! #!a
(ʿ * !.. ʿ Vʿ)(. + ʿ%"% $ ($ ʿ !. "$ʿ)! * * !+ (ʿ)(" .ʿ "ʿ O $! ʿQ"(O$(*ʿ %ʿ
)("%(ʿ)" ʿ Q" $" *ʿ% * " $ " ʿO $ ʿ *(R ʿ) !$O $ ʿ ʿ% * <ʿ -$ʿ + ʿ$(" (.) $ʿ
(*ʿQ"($+(*ʿ %.) $#.($ (## $ ($ ʿ"ʿ (#! ," ʿ+).)L% $ " ʿ Q"(ʿ 5E ʿL,. Q" ʿ
F" * ! ʿ$!$ʿ%".)) $ ʿ . (Cʿ (Q" L(_ "+ $) +".) + $ ʿ(Q" ʿ() + (ʿ R("+ $ ʿ
* !.. ʿ (* $ʿZ ʿ)(. + ʿ).)ʿO!."$ ʿ (*ʿ.) ʿ% (* $ʿ$!$ʿ#" %(+" *ʿ(+ʿ (+) ʿ#.($9ʿ
(" *ʿ% #". " * ʿ* !.. *ʿ ($ʿ# '% :ʿ$ F . ! * $" ʿ)" *ʿ%(#! ʿ .. ʿ+ % ʿ * $" ʿ .. ʿ
R (" *ʿ % ʿAʿ" ʿ) !$%#) ʿ.) ʿ (+) ," ʿ% * .ʿ * !.. ʿ * $" ʿR("+ $," ʿ#" * .(ʿ
% (R . %Q" ʿ(,! ʿ# * ($ $ ʿ ! ʿSʿ#(% ! ʿQ" ʿ !O " *ʿR)R ʿ# ʿ(R ! ʿ#(% " *ʿ+ +"9ʿ
) ʿ(Q" ʿ% #) !$)."+ ʿ($ʿ $ʿQ" $ʿ% $ *ʿ +%() (ʿ% . OQ"!$ (*ʿO + .) ʿ% "9Gʿ
R ʿ%)ʿL((Cʿ+ .) % ($ " ʿ%,.!ʿ $ʿQ"!ʿ" $(.(#! *ʿ+ R"% (ʿ#!% $ ʿ $+ ʿ% ʿ"ʿO(ʿ1_3
+) ($+" * % + %) ! ʿ " ..! R(.. $(" * (O " * Q" !O ..! ʿ, ", ".! ʿ)(* ..$! Q" $! ʿ
(Q" ʿ F" * ($! ʿ (_"$ " $! .F"..ʿQ" ʿ ' % * ($ʿ# $R" ʿ%!." *ʿ ($!.,ʿ# (% *. *ʿ
. ʿ(+ʿL * $((ʿ $% " $+(Cʿ(ʿ '# $ (ʿ)!$ (" *ʿ+!) :ʿZ ʿ +ʿ UF !#F (% 1 ʿ1(*ʿ
3. *ʿ%) #%)ʿ" ʿ#.($ ʿ $ʿ / (.)(ʿO % !$ ʿ(##(,

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(Q" L. # O ($+! $"..(* + %)". ( ) *ˢ ! ,% ()".!%!) GQ"!ˢ * $" ˢ ", Q" ˢ O".R (ˢ
% ($ ˢ$!$ˢ(+ˢ+"!+ $("*ˢ("ˢ) $ $("*ˢ* .. $("*O)ˢ$" $ "* L +ˢ(+ˢ+) ˢ % $9
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(, ˢ%" %. ˢ '% * ((*@(ˢQ" ," ˢ ! * $ *ˢ %(O! *ˢ ! , $)ˢ # ! * ,(" <ˢ B" +ˢ F!)<ˢ
)* # $!$* !+!ˢ % # (ˢ)! * * $ ((ˢ O! , ˢ (+%)+!) $ (ˢQ"(*(*ˢ %$ ˢ % # ˢ
Q"("* F !#F (% " * * $.ˢ% +ˢ "ˢ .. ˢ % "ˢ#!.F ˢ %%) ˢO!, ˢ (Q"(ˢ)) $% %ˢ
'F , $+! ˢ ˢ R " e"#(."* (2%((%% #F(% (* . (R$"* >(% "* ˢ + ()F9ˢ
$ $)) $ F" (* ˢ&FWF (* (.W0F. !$ˢ (R"*ˢ Q"" * O _ ˢZ * . ˢ
(. (ˢ(,! ˢ #%" ˢL) # ˢ)). , ((ˢF(, ($ˢ)( )!$ *$ ˢ< . *ˢ R "ˢ (" .ˢ
+ % # !ˢVˢ / (..)(Cˢ(## ..(!$ ˢ '# %. !ˢ(% *@($+(ˢ. :($ˢ$!$ˢ # (% ($ " ˢ) $% , " ˢ
)! * * "$ ˢ ..(ˢ%()) ˢF ˢ Q" ˢ '# "$ < B "S+. ˢ %"%#)(* $"+ˢ % ˢ$!$ˢ#!%. * $" ˢ
+!) .) ˢ %. ˢQ"(*ˢ "+) . *10ˢ F !#F (%." ˢQ" ˢ$!$ˢ * !+!ˢ))+ +)ˢ % +ˢ (* ˢ%-L%3 ˢ
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U

ˢ 7 "$+ ˢQ" +Q" +ˢ$"$)ˢ%"# (ˢ (*ˢO R ˢ! " *ˢF(, ˢ) + $+"*ˢ % ˢQ"($ˢ)U9
. * $ ˢ,ˢQ"(%ˢO ! . ' ˢ ! $ ˢ (. ˢ&W ˢ ˢ. * . "*ˢ(,! "*ˢR $ (ˢ *ˢ% "9ˢ
)"* ˢF)%,("* ˢVˢ) (ˢQ"1)"!O!ˢO ˢ $, ," ˢ#",.)!ˢ%! !ˢO $+"$ " O $"Gˢ
). ˢR ($ Vˢ% * $," O).ˢ (* ˢ (: $% ' ˢ$!$ˢ%")) O %. $ ˢ ˢQ")!R ˢ % (ˢ
+"$ ('(ˢ.!)"*ˢF(, ˢ) $ˢF! * $ ˢ!) !ˢ(,"$+($ ˢ#()+Q" ˢ% ""$ "%ˢ$!$ˢ(" *ˢ , ..ˢ
*#! :ˢQ"(. $!$$"..(Cˢ ˢ#(+ ˢ+ .))!$R " $ ˢ(. (:ˢ ," ˢ , ..) ˢ$) % ((ˢ)%9
% $ Cˢ((* $ˢQ"(. % "$Q" ˢ ($+ # ˢ. ˢ)". " (ˢ" !Q" ˢ *#! ˢ$)) %.((ˢ % ˢ ˢ$(*ˢ #% 9
*) , ..(!) 1. O ˢF , $ $ ˢ. O $ˢ '# + !$ *ˢ# !%) % ($ " ˢ(" ˢ $+ ˢ +)($ (Dˢ
)". " (*)!$) + .,.)$ 0Q" * (+* !+"*ˢ $(*ˢ ()F (O).." ˢ %"(ˢ+ ˢ ,)..!+ %) # (9
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Q"(*ˢ+ ˢ#))"$ ("*ˢ $!# (ˢ)!$Q" $ ("+ O ˢQ$ $(+* !+"*ˢ$"$)ˢ% <ˢ ˢ % "3
)$ ((F!)ˢ % ($$!$(..! ")!$% . (("ˢ# ! * !O ,(ˢ(" ˢ * ! (,(" ˢ# !ˢ #% "fˢ
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"*ˢ(."*$" ˢ "# ..(ˢ)O) " O)!% R ˢ " ˢ# "+ $ ˢQ" +(*ˢ $ % ˢ #% " ˢ(".)" ˢ
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(* (.)"1" ˢ , $) !# (O+ O O(. %% ˢ ˢ $ .. ˢO ˢ(Q""ˢVR (O% ˢ +ˢ $ .. Oˢ
R $ ˢ($ˢ +ˢO "*ˢ %))'Q" KˢO!." ˢ (Q") O!)(!ˢ $ˢ%)) ! *ˢ.!)"*ˢ% !ˢF!.# 9ˢ
) .."*ˢ! (O ˢ" ˢ$ %ˢ * ! [% "*ˢ % ˢ ˢ%ˢ% ˢ#!% ˢ ($+ (R! (*Q"(Cˢ #%"*ˢ!#Q. $MG
" $ˢ ++ D . ..ˢ!% $+ Cˢ " $ˢ ..)ˢ (..(ˢ%"$ ˢ* +! * $ Q"gˢ+)ˢ* ˢ* * ! ($ " f5
$(*ˢ$"..(*ˢ(. (*ˢ ($+ (R! (*ˢF(, ! ˢ# ( )(*ˢQ$(*ˢ$"$)F"+ M O R $ %"$ ($M3
$ ˢQ" ,+ˢ $ˢF($)ˢ# !O $) (*ˢ)!$) %) *)"*ˢO +*". (:!# (+ˢe0! B * ,". ((*Lˢ
% $ $) % ( ] $"$Q"(*% O" O .ˢ($) ..(% . " O . . (#! ˢ* ˢ", "* 1 O Q" ˢ# a
* " ˢ% *# ˢ)", "ˢ% ' C (Q" ˢ (!$ ˢ * (ˢ1" * * (M(Q" #%()"_" O! * (+ 3ˢ
. R $ (ˢ", ! (ˢ%"$ˢ ++ (ˢ + *ˢ ! * '()) + ˢ * % !ˢ)".+(%ˢ *($ 1#O!ˢ.L, () $Oˢ
1(*ˢ(+ # ! ˢQ"!+ˢ , Oˢ *#! ˢ+O ˢ % +"*ˢ % ˢ% +ˢ$!$ˢ. $ ˢO [$, "* $O + (ˢEQ" ˢ
) *ˢ #% " ˢ% R ˢ", ! ˢ%" ˢ)!$%#) $ ˢ)(ˢ $ˢ%"! (R ! ˢO)$)%) # .) O(, (3
ˢ,($ " : (2N" ˢ+ ˢ)(".(ˢ ! * (*ˢ)! (*ˢ $("ˢ)!$O!)(" ˢ % ˢ 1.. @+ ˢF()ˢ ˢ# " ,(!ˢ
(+ * !+O *ˢ %#.) ! ˢ ($+) ˢ $ˢ * $ *ˢO $ ˢ" ˢ((' "* ˢ#.(#% (Q" ˢ ˢ, !O ˢ, #(9
(ˢ, + * Q" Vˢ . Q"(ˢ "%)(ˢ $% "* $ (ˢ $ˢ%! "$ O! * ($"* F ()Q" ˢVˢ %)ˢ
) !ˢ% % O) ˢ " ˢ "+ ' f ˢ +)%+" * Q" +ˢ(+ˢF ')ˢ %#!$+ ˢQ" g+, ˢ!,) "$ " .$ $# ˢ
O) $! ! *ˢ% R ˢ $ˢ ""*ˢ(R "*ˢO $ %) ˢ#).. [% ˢ<7 ! * $ ˢ $Q" [ˢ)$ˢ* RˢO $ % [
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_ ' =' &' ' ' ' ' &' ' ' ' +' ' @'
$+) 'O S #% " '(((O! * V'#.("% (' $(1! ('#!$+ !%.! (Q" 'O".R(," ')! >'
L#))$ 'C+ $+ ' #% " ', !O) '# $R") 'V'% $!')! #!): , #(. ('L( )".(' " ('#(.(M'%) 9'
(%(.) \Z))" (Z. ('O $.(, (V . Q"("L.)($% " * $ (' (+)!' ,. +(V' (%%(, '
%(+(C $M* (* $ O!L, f% ! " * % . (" $Q(#$" ' (Q" ' "' ! ' .())! '3! * $ Q" '
O R !')%. ')! #!) 'V $ R O % C ," :. !$' * !+, " * '(,%,.O "$ '% +'!,1" R(#% "@'
())"%(! ," + ' "$ 1% % O". ' ($+ *' + . R $ (*' $')!. $+ %" ' (R ' (+F ," $)'
Q"(*' .. %" " " * ' ")# $+ + O) $) ' +F( )%! % ($'# ($% $" " * C+) * !$9'
(' (*)$'O!." * " ' + . R $ (*' $"$Q"(*' % "% ($ (*')L)' + . R * * Q")'O " * '
\"$Q"(*' (+ R % (*' + R ' ' R " 'F!)' $L. " " * (Q"!'F ' , .." '(## ..(!$ *'
+ " * F) F("+' + %%) . '%(+ "' %'1'Q" +'!,)'Q"!' * $" ' R ()' * (R$ %) $ (C%(O!)'VC
#(!) $!' + R$" * '% '< (*' ('$ * $ '(+F")'# !#!% " * ' %'F!)'$ R! " * '$ Q" ' Q" %9'
Q"(*' +%"% # '#!% ' (* % * .. ! * (1! '%" * " %()) Q"(*' Q"! ' '# * '
!$% +) (' R!Q"($ '% * $ " ', $ %) " * '$!$+" * ' * # (" * +" * ' +' ($ ' + 9'
.") 'O!." * " ' ' (* $'%'O .')! * #(($ '(. 'Q" '$"$Q"(*' (!$) 'F(,") "$ '$ Q" '
F(, ,"$ L * $" 'O + .) ' '% $+ Q"(*'O O \' #)!$%". $+ ' $!$'(+ * !+" * ' L, .) '
%" * " 'V)!$% ($ $$!% ! $% " !# . O (* " @&." * '("+ $ '$!% (*' #!..3'
) (O * * #!%% , . * ($'.. * (,"$ C$! '(" *' % O)' ('..$ % ' .!Q""$ " '$!$'
-!))D() * " ' (* ,"1" !# $% "$! $"$ " ($$ ' #() " * $O)% + $ * #!3'
. .!$R "+ $ * :'$!$' $' # O('(.)"1" O '% +' $' ! " ' ! , 'R ((* ' * * (+O 9G'
$+" * ' %'# ')(' +'Q"!+'('$!, '$"$)'$!$'# '% (, " '(. ('# '% ('#!. '(")' (,'
(. !'%")) % , ')). (,' (* $' $ " * ' % * .'%() $+" * ' % ' %') *)!$% +(*'O 9'
+ 'O!." * " ' ' " ' + $!$% * " '$! ' $' * + " * ' $ F .'# !.(" " 'Q"!+' 1(*'$!$'
% ' '#) * $)! * # !,(" * $!$$"..('F"1" R$.!)(' (Q" '(. (' ' $(' $+)(, 9'
* " Q"'#!%% , . (*' + * !$% (,"$ ' (* @Q"($ " * '(+' ($'Q"' ' ())"%('#!% '$ 9'
R. R $ (('F()' (!$ '%() . ' ." '#! C' , .." * ' L) .))' * # + 'Q"!' * $" ' * ($9'
+(" * ' % (" ' !# '' (+' ($' *' + % R$ $ " :'P ' .) '$"$)')) (*' F($)' *' # !#!9'
$(* " ' $Q" $+" * ' (* $' ($' (. Q"!'%" " (' % ' $' # !' ! ' .($ '%() . ' ')".(, 9'
* " 'Q" '$ F .'()) # * " 1_ ' $' ('%" * " '%() * " C # !#) ('$"..('!,. R(!$ ' !,9'
% $R * " ' ' (Q $'%() . '$"$)'V'+R $) # '# !,('#! $ '$!$' * (1! *')%)'+ %%) +9'
)(*'# ! * % ('# '% ($+ 'Q"(*'F! ".($! '%# $() ('V' , (%)(')!. $+ ' $ *'F('+ 9'
) # (!$ %() . ' * F!+!' + % , ')!$% " * " " ((' ' ')!$ * !+" * ' $+)'
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3 ' . ' A '% & & ' & '!' ' ' & 4

& ' '9 ' &$ ' ' &/

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C O'# !% % ,(,! " * $(R$ "+!($$! ($+( )' ' +' (C)$' % $ ' ') # !$ '
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O!)($ 1&W)%' * (R$ "+ F '% +Q" '&W ! $(O %#!$)$( ) $))" ('F 'Q" ''
) $ ' $F! $% '%($)! * #((, # '((O)($O $) ' ",% Q" $ ' (* $' $' $9'
R $ *'(.L "+ $) * ') %)"$ C ( )) / (.. ' ' !'%$"$)"#(' ,) ' &! %' + + ' '
(# $ f OA &.(($" ' % ( )('(,! @') ' / (..)' ' &! '%' ' !" *). ''C '! '%' & (' '
' ' + % (9) " ' . 'B O)" '..)) ' (' .$ ' ' %: F ' ' * ('V'% * $' '
)'Q"("!)!))%"$) '% "$ + * (1! ' % (' (, $' ' V (" ' * $ ' * (R$''
6 ."$ # 'Q" ''% " % '$") ," '$!$' * $! '#)'+ ''%"$ ' (.) ' (' ' (% ($O' ' (R)9'
".'3'&(, O% OO $+)''%)" ' .()) ' $ / !%!"O(! ," '(")"#((' ! ," ' ! 9'
)$ $(. O !)," \&(. * ("R.($. * " '&!#"." '$ R ('(.,('V' .# $('&) ' '&) (% '
V'& $(% 'Q"! ' F) . / * , !'(## ..($ ' ! $ (%% ' VC "# + ' . (_ *'O ,'('
,! " * '$!O" .. ' ' $ $! %"$ (*) % ') (*' $'1"% (('* (R$ "+ $) *'(+!.).)($ Q"(. '
% $):) O') O1#('* ((@V'O".R(') '8]W#F'O' W)! (! " ' RW# ()('P ' W)! * !9'
" ' (. % '(. "'&) .(!'(## ..() 9'J ! * (" '%"(#)'$(" ('#"% ..(' % '% +' (* ' '#" R(9'
(' $' * (R$(* (. "+ $ *'(% " R Q" * (+ (!+" * ') (*' (." '#"$)(G' + *'%() "$)'
($R" $)(OO R '(.,(O O$ R ' Q " (. , ' R"% ('O!)($: .( ) $ 'P ' ($R%. $) ''O R(C'
J ", ''! O !) ' * # ' $O $ " * " ' ! " '(.,('P '$ R ('O "% (' * %(R$''^"$'(,!O'
') (*'&W '& ($ &) % , ' *)$ ()''P '& ')!Q"''* (. (#))([V ' ' %#AG'
Q 5V + !$)' . Q" ' $!$$".. '.!) ' * + !) %"$ 'O..O+(. ' * (R$ ''% O$ (,! ('
V +'V' (O ($('O' ($ (R $)' + % $ 'P '8]W#F(' .)(% ')" ' (" !) (%" ' # $(
$ R (

ˢ U ˢ ˢ ˢ ! ˢ

R (ˢ # $(ˢ) O $(ˢ # $(ˢ#!.) ˢ) ,) O".R(# $((.,(ˢ / !%%";((Vˢ # $(ˢR(G
] * (ˢVˢ (' $ˢ * ! * ($ˢ $ˢ$"$)"#(ˢ +(+ ˢ Q" %!. (<ˢ (," $"$,ˢ (#FW.!+)$9
+ ˢ (* ($+ ˢ W !,(.($ˢ Q"(/ (. $" ˢ F W%, ,(.($! O!)(ˢ / ($ ˢ "$R" $ ((ˢ
Vˢ)() (ˢ (,)(ˢ * + !) ˢ%"$ ˢ ^F!+!+ $+ ˢ$!$$".. ˢ / (C $%".1 .!) (+'+)"9
(" *ˢ (,) ˢ) ! $%))$+((# (<ˢQ"Oˢ(. , ˢ#(O'ˢ%"$ C %) (*ˢ) $ ˢ(+ , $R $ ˢ$(G
%) "$ " " ˢ%)(. ˢ (+ * !)!$.))$+ ˢ +), ($ ˢ !))" ˢ ,(#F)(ˢ $!$(. ˢ ') %) $ Q" ˢ
() +" ˢ .. ˢ% " ' QR ˢO".R!ˢ ,) ˢ(##)..()" ˢ (. (* ˢ (, ! ˢ O(*ˢ#(O()% % . ˢO , ! 9
)"$ ˢ% " ' ˢQ" ! +ˢ (, !$)$% ˢ& !O $) (A%O O610 %2A%(## ..(L) * #) ˢO L#!$) ˢ$(9
L ())$ ˢQ" ,"%+(*ˢ.!) ˢ(#"+ˢ R!$ˢZ ˢ (.!$ *ˢ# ((* ˢ &W " ˢ) O $(ˢ !% * ($" 1 ˢ
L# ." ˢ(!$ (ˢ ") # "$" ˢ %ˢ / 4(ˢ ˢ * , (R!.(ˢ " !$ $% (R ! ˢ / * $% #(O()%"$ ˢ
(, ! ˢ , % OM ˢ&"$) (C ! $ ˢ "' ˢ W ()) ˢ (* ,') ˢ ! W. ˢ (, ˢ& %) ˢ (* ˢ
+" (+ (C Q"(* ˢ (. (C & ( )!) $" + ˢ &F! $) (C ˢ 'W) + : (, $(CW&FW.)(ˢ
+ ()F$ ˢVˢ)) :ˢO "% (ˢ(!.."$ ")A $(RW ˢ $!$ˢ(%." R ˢQ" * (+$!+" * ˢ$ (ˢ
&(. " ($)) F(* $" $)) (. * " V ,O ˢ ,(,(C%#)) ˢQ"(* ˢ / ! R " ˢ R)!.(ˢ ˢ
7 !%#W !$ˢ %. ˢ))$% ,() ˢQ"(* O" ˢ .O ˢC '(& $! * $($ ˢ9 .((R$" ˢ .()" * 9
*)$ (F !#F (% ! ˢ+ %) # " 'Q" !+ % +"ˢ "#". ˢ% ˢ()F(O L (7 $ˢ (#"+ˢ
/ (..! ˢ $O $ < ' 'ˢ "1" ˢ$! (* ˢ()) # (* ˢ % ˢ+), * " ˢ (.)$,ˢ !%+! ˢ#ˢ G
/ * ($ ˢ %! + $% ˢ $ˢF!)ˢL>%.+!ˢ)') (%. * ! ˢ# F" * +$! ˢV5 !+ % ! ˢQ" ˢ
. $R".(ˢ, $ O!. $(% OQ"W! * $, _ ˢ / * ($ ˢO".R(ˢ $$((ˢ % \ˢ) * ˢ $ˢ& ! * %($ (ˢ
%" * ˢ $ˢ (' !$ (ˢ$!, ˢ)" * ˢ!)$+) ˢQ" ! +ˢ * ($ %) " * ˢ $+) " * ˢ) O # ˢ $O $ ˢ $ˢ) ' ! ˢ
* ! ˢ # $!$)ˢ$(% $ ˢ#.($ (ˢQ"Gˢ ",ˢ#%(ˢ * + ˢ !,% O(^V%",) ˢ !%(ˢ !% F(9G
OO) " * ˢL .O)% ˢ " $ˢ+ ! * .F) ' ˢ ", (., (C VˢO + W ˢ !." (C ˢ " 'ˢ * (. &! ˢ
1$(ˢ +(* ˢ * !$ ˢ ' (* ( ) /)$ % 'ˢO(ˢR $ ˢ (* (1+ ˢ $ +:
%#(.(F" ˢ O # "$" ˢ ()F(. # FW * (." ˢ+ $+ ! + ˢ , ! ˢ ."+'O$"$)"#(+ˢ
(,(R! ˢ(" ˢ . Q"(% " * ˢ %! (!." ˢ)(ˢZ ˢ&F($(ˢ (.) ˢ .$ ˢ ˢ&!#". ˢ $ ˢ) ..(ˢ
%)ˢ)) $. 'C$(*ˢQ" 'ˢ#" * .'ˢ)!$%#) "$ " ˢ# ' ˢ$(" (* ˢ (. ˢ "$ ˢ / !$. + (%
". * ! ˢ) $ $!(R ! ˢQ" 'ˢL)(.(Q" !+(* * !+! %) "$ $ * (R$(* ˢ "%Q" (. "+ $) * :
$(* ˢ (ˢ(ˢ ") ˢ+"+ 'ˢ%"$ ˢ" ˢO) ˢ .. * (('ˢ (+%" * * " * ˢ "%Q" ˢ)!$) $+($) ˢVˢ +ˢ
..$R". ˢ (" * ˢR (+ ," ˢ (* ! ˢ)(" * ˢ) '+ $ ˢ *).) * ˢVˢO $+ * (* ˢ $ˢ () ˢ%() ( ) ˢ
!$$"..'(+(R ! ˢ).("+ $+! ˢ ˢL # $+! ˢ(# 'O"$ Q"(" * (Q"' # $!Z'M(. ' * G
$ * ˢ (. * " (R !ˢ !L,.W *)($! Vˢ $ˢ)($%".((* +)) ˢ $ˢ RW# , Q" $9 ˢ
+($!ˢ(R !ˢ&()(O $!ˢ(+ˢL # ˢ%() $+(ˢ +!$ ' ˢ (* %ˢL# $!.'ˢ $!$ˢ%$ ˢ (* ˢQ" ˢF [ˢ
L # ˢ 'ˢ # $(ˢ $% +! (ˢ 'W()($ F(ˢO".R(Oˢ& "$!ˢ% .O % ˢL O ˢL# $! ˢVˢ ,)!$F 9
) "$): $ˢ& !O $) (ˢO ,ˢ F(* $! ˢ $ F"% (ˢ # $(/ ()] $(V(. , ˢ ", !: +)Q",+ˢ
. $R".' R !$ ˢ" ($)" Q" '#)". (.. ˢ%"$) ˢ $ˢ (" * ˢ(.,! ˢ)) $. ˢ#: [$) $3
ˢ% " 1) . R * " * ˢ FW * " (Q" !+ˢ" (Q ˢ (O)$+".($!$ˢ * $" ˢ(. ˢ(. " R 1 FW * G
, ((ˢ ()" (ˢ+ %% $ ˢ ,"%)".(ˢ % ˢ F(* '#)") ˢQ"(* ˢ !. * ! ˢ $)!.'ˢ(R !ˢ R!9
* $% ˢ ˢ F (O $$ $% ˢ) ˢ * !$ * ˢ)(.((ˢ !' (## ..($ ˢ FW * . ' 'ˢZ ˢ F(9
* . ' 'ˢ% ") ˢ% * # ˢO $ ˢ (..") $(ˢ%"$ ˢQ" ˢ * # O O" * ˢ(R$!.) ˢ(, (ˢ%"$ C
$(* ˢ(,"%)".(") ˢVˢ&!.) * !$ (ˢB" '+(* ˢ% $ ˢ(+ * $)".!ˢ%", $ Q" " Q" * G
(+ * !+" * ˢ $(,(% (+(* ! * " *)+ ("," $.(' (# (ˢ .(CO ˢ "#" ˢ%(G
+(" ˢ * ! * " * ˢ ," $" * ˢ ").. ˢZ ˢ ˢ &. 'Q")ˢ(. 'ˢ%"" * ˢ (* ˢ.!)" * ˢF !,O ˢ
$))ˢ#!%. $C% +ˢ+)ˢ ˢ $ˢ R)". " (+)) * " Q" * (+ * !+" * ˢVˢ+)ˢ)R" * $," LQ" 9
," ˢ / (..ˢ$"..'ˢ * ˢ(+F")ˢ$!$)$ˢ * #!$) ˢ$! "$ %)+ˢ%",ˢ!. ," ˢ) ! * # F $+"$ \ˢZ ˢ+ ˢ
) R $," C# ! ˢQ" ," O(')!. $+) (* ˢ (!$ $O $ ' MV(O %(ˢ (() ()$ * ˢ
%" ˢO! *) ," ˢ ')!R ((ˢ%"$) ˢ ! ˢ / (.. ˢQ" ˢ $ˢF!)ˢ% # " * ˢ $) +) ˢQ" QF ˢ%. # (G
ˢ .# ," ˢ $ˢ (. (* ˢ# O)$;ˢQ" ˢO! ˢ#))!$ ")ˢQ"(ˢ ˢ(#"+ˢ).O) ! ˢVˢ^F ! ˢ
O ' ˢ %#!$+ , ˢ#($ ˢZ ˢO $!ˢ +ˢQ"!ˢ#($ ˢ%ˢ) ' () " *)$)!ˢ!# * !ˢ) !$% +!ˢ+))9
Q"($+!Q(+) * ˢ . " * ˢ , !$" *)($+ +" * %(# +" * ˢ VC, $.(, ! ()" * + # F $+ 9
CˢZ ˢ (*)$ˢ%(.. * $ ˢ $ˢ R " $!$ˢ#"+ ˢ R$! ( )ˢQ"!ˢO % ! $ ˢ<ˢ$(;ˢ %)ˢ% " *)$G
())" * ˢ$"$Q"(* ˢ + ˢ * ,ˢ$ ˢ% " * $ " * ˢQ" + * ˢ)ˢ% " ˢ 7 $+(..! " * ˢ * ,G
.(ˢ $R %. ˢ))) ˢ.(# +))!$%# ' %) ˢ+ R." * ($+ 'ˢ%# . 'ˢ +!$! ˢ( ) Q"($.ˢ * !.(" ()
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R(ˢ $ˢ$!+" * ˢ#((ˢQ"!ˢ / $" $% ˢ. ! ˢ $)!.'ˢ * . 5 ˢ+ % +"ˢO % "$ " ˢ3

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Vˁ $. R$ F"* ($ (1 ! (*ˁ R ˁ)F +(Q"(+(*ˁ# !$"$) ()"*ˁ%"
C 7!* $ ˁ.) ˁ(,ˁ)!ˁ *#! ˁQ"!ˁ ˁ (1 ..(ˁ)!$))+ ˁ#.()" ˁ3" ˁQ" ˁ$+R$ (ˁ(. a
Q"! ˁ, $ +) (ˁ(,ˁ#%(()+# $ ˁ) (*ˁ)" ($ ˁ& "ˁ ..!$"ˁ * $($"ˁ% ') $ (ˁ
., (ˁ$##$+!$ *ˁ($$"(*ˁ!, $ 1#." * ˁ (* $ $Q"! ˁ#!+ (ˁ, $ +) (ˁ)!..((ˁ%" 9
. 1" ˁ+) ˁ$"..(*ˁ (!$ *ˁF(,") ˁ ˁ.. ˁ$!$ R$! ($ˁ, $ +) (ˁ$!$ˁ)!$% ˁ $
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'(" *ˁ%"$ ˁQ"S+O(ˁR $ (,! "*ˁ% * $()!$R ˁQ")() Q"'$ Q . ˁ $ˁO + ˁ
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.. ˁ)!$++(. ˁ (ˁ) $ (Vˁ *(R$(ˁQ"($ ($($) .)ˁ#!+ Q"($"* ! Q"(. Q" ˁ
(1 +(ˁ#.() , ˁ. (ˁ% ˁVˁ)!. ˁ%#!$+)ˁ OQ" ˁ ˁ (1 +(ˁ$!$ˁR (O " ˁ
'O) (O + +.) ˁ" ˁ+$ ˁ"..(ˁ ') # !$ ˁO + Q$ W O("*ˁ ' Q"($ " ˁ
.)"$+"*ˁ (.)F +(ˁQ"(# !+$R".(O + (ˁ, $ R$ (ˁ# !# (ˁ* ($"ˁ%",+R$((ˁ.^ˁ
+(ˁ#.()" C"ˁ)"*ˁ!))(+!% %ˁ!% !ˁ, $ +) !ˁ% "ˁ#!+ ˁQ"!+ˁ $ˁ. "*ˁ)!..("*ˁ
%" ˁVC+ ˁ (ˁ ˁ. (ˁ",ˁ$) + ˁ ˁ..ˁ '# + ($CVˁL#!$+ ˁ (!$ ˁ ˁ+ , * $ + (9
" "* ˁ" ˁ$(.#($ "ˁ ˁ (1 +(ˁ(,! ˁQ"("*ˁ$! * $(ˁ%",. Q""$ " C
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/ !)) % 'ˁ.) ˁQ"'ˁ$% +! "*ˁ)!))"*ˁ% "$ ˁ/ (.. ˁ2) '%ˁ ˁ ' e^ˁA ˁ+ ˁ!! . ˁ
'! & &
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& (ˁ (,)"*ˁ (+ˁ+.O + ˁR!$"
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(# $ O,ˁ!+ W ˁ+ % $
,! ˁ."+' ˁQ"(ˁ/ ') O".R+ˁ !")!")F (ˁ$"$)"#($) ˁO$+)ˁ (,(R $ ˁVˁ . Q"(+ (@
+ +'
/ *, ˁ F' : "* DOA / (..! (* ˁ
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C' . ˁ $ˁ (. (ˁO".R(ˁQ"(ˁ%(.%,$!$ $ ˁ W)!*! ! G$"$)"#($ ˁ (.ˁ+ $ ˁQ"(ˁfW)!Oˁ
! ! ˁ (.)(ˁ(##)_(" ˁ (*ˁ) 9*($ ˁ! ˁ$"..(ˁ)R *(ˁ W)!*! " ˁ$(.) " G
$(RW +
'W))+ / _ ˁ '/
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&FW.)' ˁ(,! ˁ# # "+ˁO $ (. ˁ 4'. '
9 ˁ% (' $ ˁ* !$ ($(ˁ%#))
!'!:ˁ(,! ˁ , ," ˁ+* . @ ˁ
+ˁ)"1" ˁ. '# $) (*ˁ+ * !$+ ($+(* ˁ%"(ˁ (1 +(ˁ '# $%(ˁ $ˁ, $! !O(+
$ R! "%

FOR! "*ʿ .."+ʿ# %) $+"*ʿ(# ! ʿ$!, ʿ)!$) %% ʿQ"! ʿ)!$Q")$+! "*ʿ% $ $"$%ʿR (9ʿ
($O((ʿ R !$ ʿQ"(ʿ .. $! * $(,1*" (,. R( )*" 1Q"! "*% $R". ʿ$ʿ($$"($ʿ
$% !$ *ʿ) $ "*ʿVO R $ ʿ. , (()) # $ʿ + 1R " Q"!+ $ʿ%"*# " "*ʿ# ! ʿ
#!% ("*$ F .ʿ(. "+ '#) (*" Q"(*Q"!+1(*+"+"*ʿ$!,)!$) % "*%" (ʿ B",+ʿ
.ʿ+ %%)". (ʿ%",Q (ʿ $ʿ+", "*ʿO!)(ʿ(ʿQ"(1ʿ# !#!. 'ʿ%"$ ʿ$!% "*ʿ)(."*ʿ Vʿ%,."*ʿ
%) ʿ#!%. $:1(*ʿ$!$ " (ʿQ" ,"%+(*ʿ.!) ʿ(+!. O . ! " $ʿ+ . R $ (ʿQ" ʿ ..(ʿ% * $+ʿ
)!$% O "$)ʿ! + $ ʿ))) % , *" ʿ .Q"(*ʿ $ *ʿ) "*ʿ . ʿ(#"+ʿ $! * ($! *ʿ" 9ʿ
,)*ʿF! ! !" O! ʿ) %) ʿ 1"%Q" *(R$(ʿ % [ʿ) (*$"*ʿ)!$%#)ʿ(,!) ʿ (ʿ %ʿ
Q"(*ʿ Q"(*ʿW RW# (*ʿ$! * $(ʿ!#! $!$ʿ(" (ʿ (*($+! CQ"(ʿ RW# ʿ#("9ʿ
)(ʿ$)))($ $ʿF! " Q" +# (*ʿ..$R" ((."$ Q" *(+* !+"*$! ʿ ")(ʿ F(.! ʿ
"1" ʿ Q"(]ʿQ"(ʿ $ ʿ (ʿQ"(Cʿ# !#!. (ʿ%"$ʿ# *"*ʿ!, $ ʿ.!)"*ʿ% "+" ʿ(ʿ / (ʿ
5 :ʿ(## ..(")"1" ʿ% *)$ʿ. "ʿR ($(ʿ# $+ $ʿ$! *)$ʿ+ + ʿ#!$+ ʿ ..ʿ(" ʿQ"!+ʿ^(a
(ʿ+) " ʿ !$* $! *) $%"*(+% ʿ/ $" $% ʿ (O!$ $. ʿ(Q_ ʿ ..(% ($)(Cʿ(R ʿ
$)!. ʿQ"(*ʿ."R.($+ ʿ# ʿ#.($(ʿ/(.. (ʿ $ʿ* !$ "*ʿ+). O , ʿ(Q" ʿ (+) ," ʿ# !9ʿʿ
L3.!)!$(.)ʿR("+ $ ʿ*(%Q" . ! ," ʿ(Q" ʿ (*ʿ $ʿ (+ ($ ʿ ($ (ʿ(,"$+($9ʿ
. (ʿ*(R$(ʿ% . Q"(ʿQ" ʿ 1"ʿ% "+" ʿ%"$ ʿ# !% $ ʿ"ʿ $ʿF! + ʿ%! $ ʿVʿ(O $(Cʿ# $"9ʿ
((% $! ʿ*".! ʿV Q"! ʿ .. O.($ ʿ +ʿ+"*@ (*($+"$ ʿ. * $(ʿ $ʿ# (% # ʿ *(a
$ $ ʿQ"(ʿ$ %ʿ(ʿ$! , O * O $ ʿ)!.. R ʿ$!$ʿ)!$%" O ($ ʿ $+ ʿ% ʿ" ʿ+%.) . ʿ$! $)ʿ
O " "* . Q" ʿ% * $(ʿ$($) .) :ʿQ"($+!Q" + *ʿ) ʿ% *" ʿ$!$"..! ʿ)\"ʿ R !$ $)! ʿ
.(ʿ#."ʿQ"(*ʿO R $ ʿ ! "*ʿ. , (ʿ $ʿ% $R".! ʿ)! !$(! ʿ+(" ! ʿ ", ʿ .() ʿVʿ . 9ʿ
)" * R.($+ ʿ %!.(ʿO % " (:ʿ '# $.(LQ"(ʿ. O %\ʿ)!$% (,"$ʿIʿ" ʿ % * !$!ʿ+ ʿ#!%."$ʿ
Q"((W!$((+% ʿ1"%. *" ʿ +ʿ$"$)ʿ%($ ʿ $% .O F("+Q"(Q"(*ʿ)!$%#) $ " ʿ*".9ʿ
F"1" ʿ R$ʿ.!) ʿQ" *(+* !+"* $ʿ (,. ʿ $+ R(O $ ʿ(R !ʿ (#"+6 $! *($! ʿ
$ %ʿ$!% ʿ*(1! ʿ(. "$+ R.($+ ʿQ"(ʿ% @ʿ)!$% $ ʿ(+% ʿ1"% % $ ʿ (+ *ʿ (!9ʿ
$ ʿ(+!. O "$ʿQ"'ʿ $ʿ !". $ ʿF! ! ! ,!$ $%ʿ+")("ʿ)!$%#) "$ " ʿ. (( )9(<
' * ʿ$! ʿ *#".) "$ʿ" "% (*ʿ# (R (*" ("*ʿ)!$%#) $+("*ʿ)(".(:ʿ %) $ *ʿ
% Q" $ ʿ%"$ %) "$ Q" ʿ"ʿ(+ $ ʿ , ..!ʿ# ʿ* + (ʿF!% "*ʿ# '% + (ʿ ($% 9ʿ
" +" 1" R.($+ Q"(C *" C$(*ʿ7") ʿ .! $ $ %(O! %)"*ʿ($ *(+") 9ʿ
% *" ʿ $ #% " F! ʿ)"*(. ʿ(,! ," $!$ $O $ $ $% ," ʿVʿ (# (W ʿ$)!. Oʿ
%"(% *" ʿ(,ʿ #% " ʿ .."% % *(ʿ ʿ) ..)$ (* %.! ʿ" $ ..! 1" % ") " *" Aʿ
)!%Q" ʿ+ % *" ʿ $ʿ&! "*ʿ)". ʿ"ʿ $+ ʿ*(ʿ& .(ʿ ($%O F $ " ʿ $ʿ% *#.) "*ʿ
F! "*ʿ # (,(*" ʿ(* $ʿL%ʿ%!)(# ʿ%". *" \ʿ. O " $! ʿ (+($+! ʿOʿ& $) # ʿ(+ʿ
. (ʿ# ! * !O $+(ʿ(+ ,ʿ% "+ !%ʿ * $ % ʿQ"(*ʿ(ʿ F !$ ʿ ..(Cʿ* . ," ʿQ" ʿ# !%) 9ʿ
% $ ʿ$ʿ $% *ʿ" , * $!) #) "$ 1Q" ," $! ʿ!#! " ʿ*(1! *ʿ + * !$ *ʿ
#) ,.O Q"(*ʿ#. Q" ʿ!#". $)"1" ʿ % * !$ "*ʿ# (, #!%. ʿ ($$ $% # 9ʿ
)!#" ʿQ" ʿ+ "ʿ R ʿ $ʿ .R)(ʿ. R("ʿ%" ʿ1ʿ ʿ $ *ʿ * ʿ# (% $ ʿ%"!ʿ% (ʿ7! * $!1ʿ+)ʿ
H ", %# $ ʿ+ ' ʿ # % !#"* ,($% *ʿ ..ʿ ". %.)ʿ* ʿ% $ ʿ + *# !$ ʿ+ F 9ʿ
$+"*ʿ%" %% ʿ% (*ʿ.!$R! *#!)(# "*ʿ % O %. ʿ !)ʿ R ʿ.!)!ʿ ..ʿR (((R! ʿ
Vʿ$!, .ʿ)" +(*ʿ !ʿ7$ ʿ+ ʿ (* * ʿ$"$)"#(! ʿQ" ʿ $ʿ+!+ $(Cʿ* ʿ !$%(+ʿR ((*ʿ
. , (. ʿ# %!.O ʿ . Q"(*ʿQ"(Cʿ# !ʿ* (ʿ + *# !$ ʿ$" * ($+(ʿ%"# (#))"B1(*ʿ
!$%# +!ʿ R "ʿ% $ ʿ *(R$(ʿ+ %%)". (ʿ !%,"O(!ʿ $ʿ $ $% "*ʿ *(* ʿV 1" ʿ
R.($+ ," ʿ)!.. + + O) $ ʿ(,ʿ $ Q"!+ʿ(+ʿ&! "*ʿ)". ʿ+") ,(ʿVCO %" ʿ
/ !%. !ʿVʿ (%($!O!.(ʿ + "$) ! *(*ʿ".Q" ʿ ..(ʿ# ". (" ʿ(Q" ʿ O)$+ %. * !ʿ
..."% %. * !Q" ʿ (+ $(.ʿ)..(!!, ". *" ʿ +)ʿ R " ʿQ"(*ʿ$"..!ʿ$ R! !ʿ$" O$% ʿ
%" * # ," !%!""(R.($+) F(, ʿ#!.% $ 1O).ʿ !$ (.% $ O .ʿ / !%. ! R$ %)+*ʿ
) "*ʿ% ʿ% $R". ʿ% F ,+! * (+ ʿ$(O ʿ 'ʿ#! "ʿQ" (+!% (ʿ%."* $ ʿ *, !$(% ʿ
%!.O)ʿQ"(Cʿ $ʿ& !O $) (*ʿ".Q")ʿ ($ % $ ʿ !$$ ʿ)!$A#) *" ʿ) (%% ! ʿ ..(ʿ)(% (9ʿʿ
'&% = %ʿ/ (.. ʿ+ +($ʿ .R)(* W, $ (*ʿ $R. ((ʿ)! (* Vʿ7 ($ (*ʿ"%Q")ʿ
($%O F V %)$(.) % . ($ " ʿ< !$ʿ * $" ʿ%() . ʿ R!ʿ)! * #(($ʿ# !.O$ ʿ%"# (+ +(9ʿ
"*ʿ ! * $ "*ʿR.($+ "*ʿR $ (% Q" F( )ʿ# !O $) (*ʿ $ʿ% ʿ%"%+#) * ,ʿ V &.(W9ʿ
#FW..ʿR.($+ ʿ)"1ʿ"ʿ))(ʿ ! ()ʿ " $(V $ʿ * $!ʿ ($ (ʿ %ʿ)!# (ʿ Iʿ O
,! ʿ ()(. #ʿ(## ..(!)!$% * ("ʿ)'ʿ 1"ʿ% * $," ʿQ"(ʿ $ʿ ! * ((O, "*ʿ!%9ʿ
%) $ ʿO $(. (ʿF(, $ " Q" ," ʿ$!$"..ʿ(+ʿ(,.")$+(ʿ)F ! F)(ʿQ"(ʿ,+! O" ʿ *,"))ʿ
O!."$ " "$ " ʿ ! * $ʿ %ʿ)'ʿ O) $$(ʿ+ %"* "* Q"!+ʿ (*ʿ)1"%+ % O, !N * $ʿ
/ (.. ,""$ 1F! "* % * $"$ %" $"). ʿ ') * # , "$ % . +! "* Q" ʿ#!$+!OO . ʿ(+9ʿ
* !+"*ʿ *ʿ+ # F $+ ʿQ" ʿ (ʿ $ʿ ! * ((% ! "*ʿ!%% $ ʿ# Q" ʿO ʿR " ʿ# , "*ʿ
) * $"* 1, #" (* $," ʿ ' * ! "%$ʿO . ʿ%ʿ#) "* O . !) ʿ(+. ")ʿ) "$ ʿ$"). ʿ ".9ʿ
(R !$% $O $ "$ " ", ʿ% # 'ʿ (ʿ)!$%) "$ " ʿQ# * (+* !+"*ʿ _ , $(ʿ+")("ʿ
VCʿ (,("+ <ʿ", ʿ&A %A ʿ$"$)"#(%"%
G ! ʿ)' Kʿ.!),# !#!% (C ʿQ"(*ʿ/ (..ʿ ʿ(## ..($ ʿ% "+" ʿ(+ ,ʿ%() . ʿ(+Q"
Iʿ #! % A

0 ˢ ˢ . A ˢ

#! % ˢ". ˢ1" *)$ (ˢ!$"% (ˢF(, ˢ#!% *" ˢ 'ˢO) $ ˢ ˢ" $!$ ˢ.!) ",ˢ% Q" $ %. *(ˢ
$(%) " # S%!.!ˢO +" 'ˢ#) ! ˢ "1" ˢO(% 'ˢ)! %#) "F " ˢ (,! (+ˢ8")[($) !9ˢ
"$\ˢQ"(ˢ (R!.(!ˢ$! * $($) ˢ $ 'ˢ (*ˢF"1" ˢ * (R$ 'ˢ (,! ˢ(+ˢ%!$ *ˢ (.!$ ˢ# 9ˢ
'ˢ ' (ˢ#!)(*ˢ$(.)"$ " ˢ* *! (, . ˢ!,ˢO "+($ˢVˢ) _ "+$ * ˢ ˢ%! (% ˢ.Gˢ
* .) ˢQ"(ˢ&. $ " ($!# ˢ) ! * * $+(ˢ+)ˢ ! * ($! " *ˢ+ O ˢGˢ(R $

! ˢ 3 4 %% ˢ

& ' #ˢ (*ˢ#!%. 3" ˢW$ +!$ ˢ 'F))($ " ˢ $ˢ O(% " *ˢ+")("ˢVˢ(+ˢ # " ˢ
" , * (%Q" ˢ(. .!) (+ˢ F!+($" *ˢL ˢ Q" ˢO !(,"%)".( )" *ˢ%" (+) ," ˢ
) " (ˢ+ % $+( )" (ˢ $ * (R$(+ %%)"F(ˢ +ˢ) ˢ#!.) ˢ '# ($)!ˢ(" *ˢ
)! * # !,(" Fˢ . ˢ%(+. ˢ$!+ " *ˢ). *(ˢ% ˢ#!%. ˢ . R($ 0$ *ˢ ˢ# '(. (ˢ $ˢ 7$ ˢ+ ˢ.(ˢ
!" +(F ˢF! !ˢ $ (" ! ˢ(. " ˢ $ˢ# '+ !ˢQ"!+ˢ (#"+ " !$ ˢ +ˢ(+ Sˢ (" ˢ+Gˢ
%. ˢL$(*ˢ# # "+ˢ (*ˢO \ˢ" ˢ#(") ˢ$ %ˢ+ . R $ ˢ!,% O#$ ˢ+ R$!) ˢ$! $ ˢ ˢ
R " ˢ ˢ)" ˢ)" 'ˢ%")ˢ" ˢ +ˢ ($ % " ˢ)!$ * +" ˢ $"..(*ˢ$"$)ˢO!."# (*ˢ (+% ˢ
)(" *ˢ '+ " *ˢ $)!. ˢ

1 +8 `W#F(Q"!+($ $!$ˢ+ "$ ˢQ" Q" $Q" ˢVˢO R $ ˢ 1" % " +" ˢ$"). ! " *ˢ
. +! " *ˢ. , (ˢ# !+$R".)! !$(ˢ+ $ ˢQ" ˢ ! * ($! " *ˢ * ! ˢ)!$% ˢ#!+ $:$(*ˢ
ˢ . ˢ ! ˢ 'ˢ * ($+(ˢ)!$%" O "$ Cˢ$!+ " *ˢ (" *ˢ(*ˢ% ˢ#!. ˢ%(ˢ $+)($ ˢ
Q" 'ˢ $ˢ * ". ˢF!)!$%#) "$ "

A ˢ) %# 'ˢ $ˢ * !$ " *ˢ%"#) . ˢ $O $ ˢ#! "$ ˢ?G . R5 OL W3 (+ 2+! " *ˢF! "9ˢ
.($! . *ˢ%" 'ˢ (1 +(ˢQ" * (+ * !+" *ˢ ˢ(. (ˢO((ˢ(,! "$ R (ˢQ"(" *ˢ$"..(ˢF ˢ
- ˢ * $! " $)ˢ , " * ˢQ"(" *ˢ. * $(ˢ+ " $!ˢ+"! " *ˢ "+)! " *ˢ.(,! ($ (ˢ
Q"($ (ˢ(+Q" #! "$ " (,! " *) $ $(* . (ˢL+Q" ˢ ! + *ˢ+ ++ (\ˢ $+ ˢ
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. '%ˢ& $ˢ + $ ˢR $" ˢ * $" ˢ+" !ˢ%(# + ! Q" ˢ$"). !ˢQ"O * ˢO".R(ˢ "+) ˢ $ˢ
F (ˢ !ˢO +C"$ " ˢ ˢQ"("! ˢ+"$ ('(ˢ(% ," ˢ / (..) ˢQ"(+ ($ (. ˢ" $+"$ C (Q" ˢ#(Gˢ
O ' ˢ# ' ˢO +" (* ˢ $ˢ 1" ˢ% "+ ," ˢ(+Q" $+ ˢ%() $+ 'ˢ "$ ˢ '# $%' Cˢ$! ˢO ,ˢ+" *ˢ
+() ˢ%() * " "$)!ˢ)! !$(!ˢ ($ (*ˢ .. " Q"(* (* * * " ") % $+ 'O 'ˢ
)Q"" ˢ%"+) ˢ +ˢ *ˢ(+ * !+" *ˢO . *ˢ %% ˢ!#! ˢQ" 'ˢ%"(ˢO +" (ˢ+ R$(ˢ $!$ˢ) $Gˢ
% " ˢ &!%% ˢ (*ˢO) $! ˢ.!)!ˢ $O $ Cˢ$(*ˢQ" $Q" ˢ(" ˢ% 'ˢ+ %#!+ ! " *ˢ Q"! " *ˢ
Oˢ "R+"$!ˢ+(!$," ˢ$"_" +ˢ "+ Q" ˢ# '% *ˢ(#"+ˢ ˢ $+ (* ˢQ" ˢ !ˢ$!$ˢO %)(Gˢ
" ˢ(Q" ˢ $ '+ ," (+% O !ˢ * ! (ˢ(" *ˢ # $ ˢ%"(O (* R"+" F"1" ˢL * $ ˢ
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+ˢ %) $ * ". !) !# (O ˢ(Q" ˢ (*ˢ$"$)ˢ!# ! ˢ " .. " ˢ#.($ 'ˢ# ˢ 'ˢ * !$ ˢ
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$%(+)+ 'Q"(C (* $' % ' ++ (C'O (*' $' ('."% $ ($ '#"..!%Q" ' ')."9'
+"$ '$)'"$Q"(*' $'(Q"(*' R + "$ " CQ" !+')! * # !,('#! %' ' *#.!($(" * O'
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* !$ " *'O)) ," '+! *) . " *')!$) . ('Q"(C (* $' $' #.($('+ %) $+ "$ '(' $3'
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) (C)+ *' (* $'.!$R ')!$O $ $ " ' . %'(. $' ' '# %!.O $+' (!$ ' '+ * !$% (9'
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+ %%)". ()'. R * "*' .. ,! "*'F(, '#!%. ' B*'# ' (., "*,($($' %() ' $'
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)*'R %.($ '" _ *#.)0 !%(')"*' !(R$ "+ $ ' " $')!.! ", 'G . R($) ( )"*'#+!3
%"(O ( )'%"# ') " ' R!' .. ,! "*'% * $ $F! ! ($ % ")' $ '). 9
RO %.! .!)"*'!, $) ' S$$ R " ' + * !$+ (!' %'%"#) ' + % +"')!R$!$ '
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.. ,! .!)!+(,"$)!$ +' (+)) * % #(O!$(#!'% * . * ' B "+'P"O(' .."+'(+ S'
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&F WR ('V') ($ %' 1" ')(*')!$% + $ '$((!'% O"(*'($ * ! '$!% ('!% ( )!$% (9
- !$ '#!% (%" "$ O .(,!)!$%) $+)$+! O .% O $)) ' $'%)!#". '#) % Q" $+! '
$!$ * $! %! %)($O!."# (Q"O$'O $(! '% ('%"6' $+(R($) '< ' R " '+)% +" '
.F$' .O % "*'#.($ ("*')!R$!$ '%)' (*' $'+!$ %)("*')". " (' B" '$"$)'
% #]!' . (*'% + * !$% (" "*'# !% +'("+ (% * . * ..)"1" O " ' * * $ 'Q"(C1"'W'
,") ')!$%#)),()" ' ! * $ R $ '#! * ! "*'!$"% (' (. ! (* !'$") ," '(. !',()) '
(. "$+ 'O %) # #"$) *(.! "*Q" R $," <' !$$ '$!O"*'O + " ')" # (*'
Q" '(. ('! * $ R $ '(,! "*'# (*'%'F(, '# !%) " '%' * + ('F * ' (.!9
"*'Z '&W ! $*'# R".(')!$%)) 'Q"(' (* $'+) # " ' ''O) ')!$% ( )'#" ( ) '<' +'
F(C))"*% "R % (,! ," +) ((,"$ " ' "*'%'%$R".'#.($ ("*')". " ((Q" '
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"S'O %(O!."$ CQ"!#(L% ! .)) " 'O ('$! (#"% ..(C)"1"%+(* '()'#) # ",'O $ '
(,"L)".(C Q"(C !))"*'R$ + "*'# !% '<B"(' (!$ Q"(+ (, 'Q"!+'7 !%)! + +)'
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'F , $)')"*' $'O(.. ' $($ (' " $'# '/ * ($ (*'%#!$ '$(%) $ * '. $'%!. ('* $ * '
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R " ' 'P'&F(* ()!#!) (.!R!+ !$')!$%) '. R * !' !))!'R$ + !')($) O'
+ !Q" 'F!)%) # "*'#)!,(,) / * ($! "*' < O2XA * $ * FW *).'(* % /$ 9
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.!$R,* $! ," Q"? FO#D %_N % ""$ " ,!$! ")()) + Q"!+#.($ % % *". #. 9
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